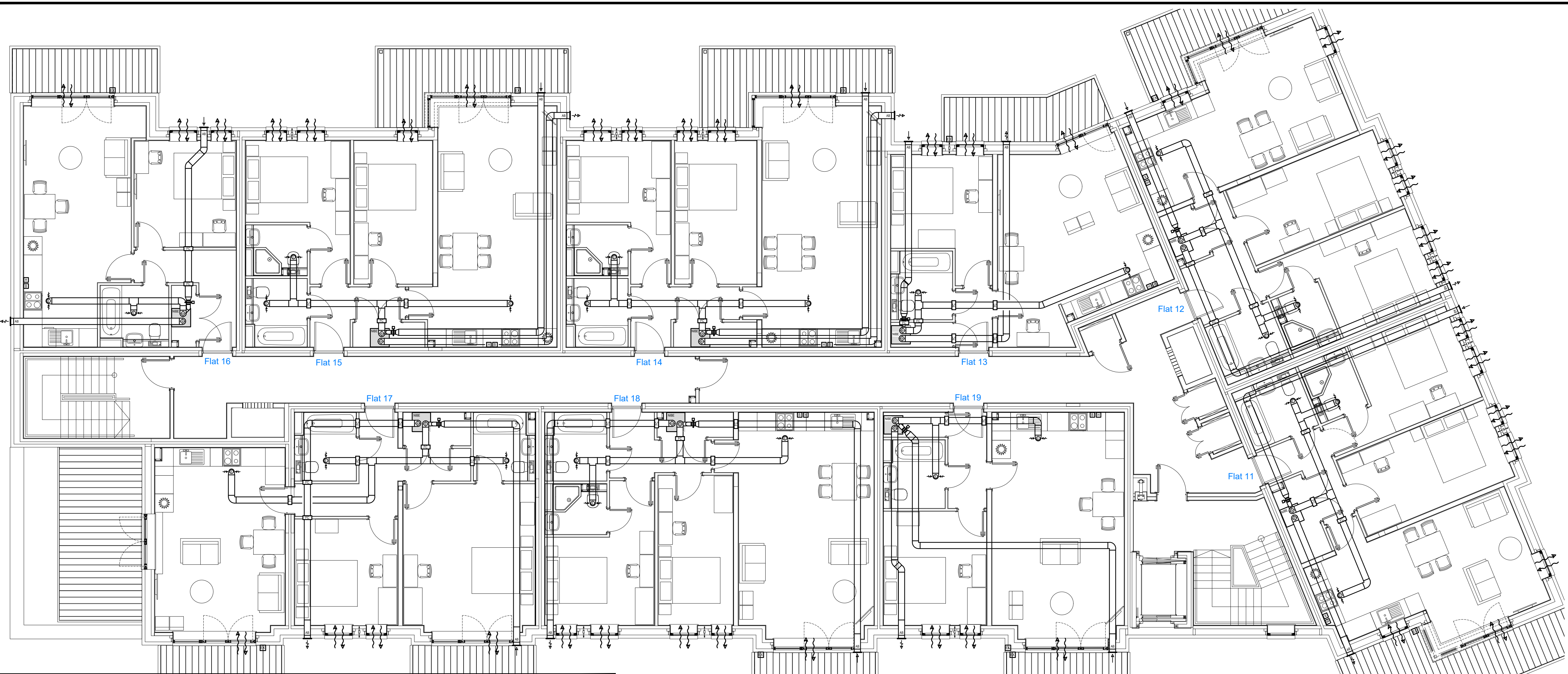




Technical specifications

16/20/30 V	kW	4	7
Output data according to EN 14 811			
Heating capacity (P _h)/COP	kW/-	1.01 / 3.41 ¹	1.56 / 3.90 ²
Heating capacity (P _h)/COP	kW/-	1.38 / 4.54 ³	1.57 / 5.19 ⁴
Heating capacity (P _h)/COP	kW/-	4.22 / 3.18 ⁵	6.37 / 2.55 ⁶
SCOP according to EN 14 825			
Rated heating output (P _{h, rated})	kW	4	6
SCOP cold climate, 35°C / 55°C		5.02 / 3.70	4.76 / 3.61
SCOP average climate, 35°C / 55°C		4.79 / 3.70	4.50 / 3.47
SCOP warm climate, 35°C / 55°C		4.45 / 3.41	4.41 / 3.42
Additional power			
Max power, immersion heater (factory setting)	kW	3.5 (3.3)	
Energy rating, average climate			
The product's efficiency class room heating, average climate 35 / 55 °C ⁷		A++ / A++	A+++ / A++
The system's efficiency class room heating, average climate 35 / 55 °C ⁸		A+++ / A++	A+++ / A++
Efficiency class hot water heating/Declared tap profile ⁹		A / XL	A / XL
Electrical data			
Rated voltage	V	230 V - 50 Hz	
Max operating current including 3.0 kW immersion heater (Recommended fuse rating)	A	11 (16)	
Max operating current including 3.0 kW immersion heater (Recommended fuse rating)	A	27 (32)	
Drive output heating medium pump	W	75	
Driving power exhaust air fan	W	190	
Enclosure class		IPX8	
For Connection Design Purposes, Compliant with Class A limits of IEC 61000-3-2			
For Connection Design Purposes, Compliant with IEC 61000-3-3 technical requirements			
Equipment Compliant with IEC 61000-3-12			
WLAN			
2.412 - 2.484 GHz max power	dBm	11	
Wireless units			
2.405 - 2.480 GHz max power	dBm	4	
Refrigerant circuit			
Type of refrigerant		R290	
GWP refrigerant	kg	0.3	
CO ₂ equivalent	ton	0.0009	
Heating medium circuit			
Max pressure in the heating medium circuit	MPa (bar)	0.35 (2.5)	
Opening pressure, safety valve	MPa (bar)	0.25 (2.0)	
Operating pressure	MPa (bar)	0.2 / (2.0)	
Hot temperature, supply line (factory setting)	°C	70 (60)	
Ventilation			
Min. airflow	l/s	17	25
Sound			
Sound effect level according to EN 12 102 (L _{w,eq}) ¹⁰	dB(A)	39-47	40-53
Sound pressure level in the installation room (L _{p,eq}) ¹¹	dB(A)	35-43	36-49
Pipe connections			
Heating medium ext Ø	mm	22	
Hot water ext Ø	mm	22	
Cold water ext Ø	mm	22	
Ventilation Ø	mm	125/160	
Water heater and heating section			
Volume cold	litre	7.8	
Volume, hot water heater	litre	178	
Max pressure in hot water heater	MPa (bar)	0.65 / (6.5)	
Capacity, hot water heating according to EN 16 147			
Tap volume 40°C (V ₄₀) ¹²	litre	223 - 264	
COP (COP _h)		2.80 ¹³	2.76 ¹⁴
Idle loss (P _d)	W	50 ¹⁵	69 ¹⁶
Tested according to EN 12897:2016			
Maximum water supply pressure	MPa (bar)	1.6 / (16)	
Operating pressure, tap water	MPa (bar)	0.6 / (6.0)	
Expansion vessel, tap water, precharge pressure	MPa (bar)	0.35 / (3.5)	
Volume expansion vessel (external)	litre	98	
Pressure reduction valve, setting	MPa (bar)	0.3 / (3.0)	
Opening pressure T&P-valve	MPa (bar)	0.7 / (7.0)	
Max operating temperature T&P-valve	°C	95	
Discharge capacity of T&P-valve	kg	25	
Set operating pressure expansion relief valve	MPa (bar)	0.6 / (6.0)	
Cut out, temperature limiter	°C	80	
Heating time (12 °C to 42 °C) ¹⁷	h min	2 h 55 min	2 h 55 min
Equivalent amount of hot water (40 °C) ¹⁸	litre	270	
Pressure drop at 0.25 l/s	kPa	15	
Idle loss	kWh/24 h	2.02	
Dimensions and weight			
Width	mm	600	
Depth	mm	620	
Height incl. feet	mm	2025	
Ceiling height	mm	2170	
Net weight	kg	200	215
Mass unit, filled with water	kg	389	402
Corrosion protection		Stainless	
Part No.		066 131	066 137

Dimensions

S735 installed as one unit.

INSTALLATION AREA

Leave a free space of 800 mm in front of the product. Leave free space between S735 and wall/other machinery/fittings/cables/pipes etc. It is recommended that a space of at least 10 mm is left to reduce the risk of noise and of any vibrations being propagated.

NOTE

Ensure that there is sufficient space (300 mm) above S735 for connecting ventilation ducts.

DETAILS OF NIBE S735 EXHAUST AIR HEAT PUMP

GENERAL CONSTRUCTION NOTES:

- All plant & equipment shall be installed in accordance with the manufacturers recommendations.
- All works shall be generally in accordance with employers requirements.
- The entire works shall comply in all respects with all relevant statutory instruments & regulations including the following:
 - Health & Safety at Work, etc Act.
 - Health & Safety Executive publications.
 - British Standards, relevant European & International Standards.
 - The Requirements for Electrical Installations, BS 7671:2018.
 - Requirements under the Electricity Acts.
 - The Clean Air Act.
 - Control of Pollution Act.
 - Energy Conservation Act.
 - Regulations under The Factories Act.
 - The Building Regulations.
 - The Gas Safety Requirements.
 - Corgi publications.
 - Requirements of local electricity, gas & water undertakings & Fire Fighting Authorities.
 - The CIBSE Guide to Current Practice.
 - The IOP Plumbing Services Design Guide.
- All plant & equipment shall be approved by the Engineer/Architect prior to installation.
- Read this drawing in conjunction with the specifications and other employer's requirements documents.
- All contractor installation shall be in accordance with British Standards and British European (EN) Standards & Building Regulations.
- Contractor shall be responsible for monitoring and reporting the compliance of installations with all relevant national and local standards, codes of practice and regulations, including identifying any non-compliance.
- Refer to architect package for fire compartmentation.
- For detailed requirements for firestopping formed around meph services, including material specifications, approval of installers, materials and installation, identification and drawings, refer to the architect package.
- Building outline derived from architects drawing.

HAZARD NOTES:

- Refer to designer hazard identification schedule.
- Falls through openings**
Riser openings between levels will necessarily be open for installation. Risk of falls and falling objects. Contractor to cover over openings when not in use.
- Work at height**
Installation work involves work at height.
- Riser access**
Risks associated with difficult access. Architectural design and planning to provide risers of sufficient width and good frontal access. Including edges and at high level. To avoid over-reaching into risers. Especially at high level and in corners clearly provide full height doors.
- Think safety**
Is there safe, adequate and correct means of access? Adequate lighting? Is the task safe in today's environment and weather conditions? Correct PPE and correct boots? Work area free from conflicting activities? Could your task affect the safety of anyone else?

**BUILDING SERVICES
DESIGN ENGINEERS**

6 The Offices
10 Fleet Street
Brighton, BN1 4ZE
Tel: 01273 626247
Email: mail@pjrservices.co.uk

Client: TRINITY HOMES

Project: ROPETACKLE
SHOREHAM-BY-SEA
WEST SUSSEX

Title: FLATS SECOND FLOOR
VENTILATION SERVICES
LAYOUT

Scale: 1:75 @ A1

Date: AUG '25

Drawn: JC | Checked: JSF

Drawing Number: T15-01-118 | Rev: A

Amendments:
A: 08.12.25 REVISED TO SUIT CURRENT ARCHITECT LAYOUT.

Notes:
1. Under no circumstances should scaled dimensions be used for setting out.
2. All dimensions to be checked on site.
3. This drawing to be read in conjunction with architects drawings.
4. This drawing is copyright and shall not be reproduced without permission.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	NIBE S735-4 EXHAUST AIR HEAT PUMP WITH VERPLAS INS 127X4 125Ø INSULATED FLEXIBLE EXHAUST & EXTRACT DUCTWORK CONNECTIONS FROM HEAT PUMP SPIGOTS TO FLAT DUCT
	204x60mm VERPLAS SST-204-PL-IND PLENUM BEND TO CONNECT FLAT DUCT TO VERPLAS VKC356F 125Ø EXHAUST VALVE
	DOMUS 220x126mm METAL AIRBRICK & SLEEVE 550mm LONG C/W DOUBLE AIRBRICK TO 204x60 DUCTWORK ADAPTOR
	NIBE MOTORISED AIR VALVE DAMPER CONTROLLED BY HEAT PUMP INTEGRAL CONTROLS TO BOOST THERMAL PERFORMANCE OF HEAT PUMP UNDER LOW EXTRACT AIR CONDITIONS
	NIBE REMOTE BOOST SWITCH
	NIBE REMOTE HUMIDITY SENSOR
	NIBE INTERNAL AIR SENSOR
	NIBE EXTERNAL AIR SENSOR
	DENOTES DOOR UNDERCUT BY 10mm FOR MAKE-UP AIR
	DENOTES NATURAL VENTILATION PROVIDED BY OPENING WINDOW & TRICKLE VENTS TO ARCHITECT'S SPECIFICATION (TRICKLE VENTS TO HABITABLE ROOMS ONLY)
	FIRE COLLAR TO DUCTWORK