

n° 274487/2 : 1/14/2022	BALTIC 1 x BAH065M5M	 
Church Farm Holiday Park Showbar		



THERMODYNAMIC DATA (HEATING/COOLING)

Gross capacity (excluding supply air fan motor)	42.9	65.5	kW
Heat gain from the supply air fan motor (*)	2.67	-2.67	kW
Energy recovery from the Recuperator at design conditions	6.5	4.7	kW
Net capacity (Including supply fan) (*)	52.07	67.53	kW
Sensible Heat Ratio (S/T)		0.74	
total Absorbed power (*)	20.2	23.1	kW
Total unit net COP / EER (*)	2.58	2.92	
Gross compressor COP/EER	3.32	4.13	
global SFP		2173	W/(m3/s)
Entering air temperature	20 / 50	24 / 50	°C/%
External Ambient temperature	-5 / 85	32 / 40	°C/%
Fresh air quantity	10	40	%
Mixed air data	19.9 / 46.8	26.3 / 48.5	°C / %
Supply air temperature (without auxiliary heating)	32.6	13.2	°C

(*):according to EN14511-2018

SEASONAL PERFORMANCES

SCOP/SEER (1)	3.3	4.5	
Seasonal energy efficiency (heating $\eta_{s,h}$ /cooling $\eta_{s,c}$) (2)	129.1	176.9	%
Eurovent energy class	B	B	

(1):In accordance with standard EN14825, heating mode performance is given for average climate.

(2):Space cooling & Space heating energy efficiency following Ecodesign regulation EU 2016/2281.

AUXILLIARY HEATING DATA : ELECTRICAL HEATER for the defrost cycle and low ambient conditions

Gross capacity	27	kW
Heat gain from the supply air fan motor	2.67	kW
Net capacity	29.67	kW
Inlet temperature of the heating module	12	°C
Temperature rise	8	°C
Air outlet temp.	20	°C

GENERAL DATA

Number of circuits	2
Compressor type/Number	Scroll / 4
Refrigerant / GWP (AR4)/GWP (AR4)	R410A / 2088
Refrigerant charge	8 + 8 kg
Teq CO2	33.41 Tons

SUPPLY FAN DATA

Air Volume Flow rate	10800	m3/h
External Static Pressure	200	Pa
Drive kit reference	LP3	
Total electrical power of the drive kit	3.63	kW
Rotation speed	1812	rpm
SFP value	1566	W/(m3/s)

Due to LENNOX on going commitment to quality, specifications subject to change without notice and without incurring liability

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EXHAUST FAN DATA

Air volume flow rate	10800	m3/h
External static pressure	100	Pa
Drive kit reference	K4	
Total electrical power of the drive kit	2.88	kW
Rotation speed	754	rpm
SFP value	953	W/(m3/s)

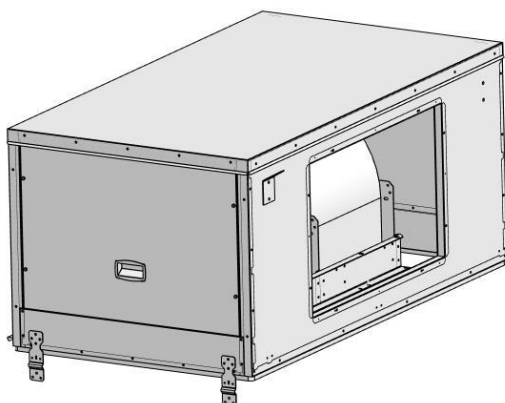
ELECTRICAL DATA (INCLUDING OPTIONS)

Electrical supply	400V/III/50Hz	V / P
Maximum power	66.5	kW
Starting current	164.4	A
Maximum running current	101.4	A
SCC (short circuit current)	10	KA
EMC (electro-magnetic compatibility)	A	

DIMENSIONS FOR THE UNIT EXCLUDING ACCESSORIES



Length	Width	Height	Operating weight
2811	2258	1263	980 *



Length	1658	mm
Width	981	mm
Height	729	mm
Shipping dimensions	0x0x0	mm
Roof opening	-	mm
Weight	175 *	kg

Total installed weight (unit + accessories)	1425 *	kg
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Non-certified pictures

(*) The weight values are provided as an indication. For helicopter or special crane transportation, plan to check the weight before the job.

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ENERGY RECOVERY MODULE DIMENSION

Length	1732	mm
Width	1693	mm
Height	1240	mm
Shipping dimensions	1732x1347x1265	mm
Weight	270 *	kg

Non-certified pictures

(*)The weight values are provided as an indication. For helicopter or special crane transportation, plan to check the weight before the job.

ACOUSTIC DATA

Outdoor Part load					
Lwa 21%	81.2	dB(A)	Lp	50.2	dB(A)
Lwa 47%	82.6	dB(A)	Lp	51.6	dB(A)

Outdoor Spectrum per octave band dB(A) (Full load)									
63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 HZ	Lwa	Lp
64.1	68.7	72.1	77.5	80.3	80.9	76.4	71.3	85.7	54.7

Supply Spectrum per octave band dB(A) (Full load)								Lwa: Sound power dB(A)
63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 HZ	
50.6	68.1	71.2	78.4	81.3	80.7	76.5	68.4	86

Return Spectrum per octave band dB(A) (Full load)								Lwa: Sound power dB(A)
63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 HZ	
47	66.2	68.3	69.4	70.7	70.5	69.5	61	77.2

Lwa: Sound power dB(A)

Lp: Sound pressure at 10 m dB(A)

Global sound power level measured in compliance with ISO STANDARD 3744

Values are displayed according to norm EN12102

Tolerance to +/- 3 dB(A)

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Items of Equipment fitted as standard:

- Performances certified by Eurovent
- Compliant with the European directive Ecodesign 2016/2281 Tier 2 (2021)
- Manufacturing processes certified ISO 9001/14001
- Compact design with limited footprint
- Air treatment casing with building Indoor Air Quality optimization
- Intelligent Control Air management with advanced eClimatic Controller
- Full variable speed fans with airfoil blades
- High efficiency EC Electro-commutated motor
- Direct drive
- Scroll compressor technology
- High seasonal efficiency through multistage load management
- Electronic expansion valve optimum performances



Accessories included with the Packaged Heat Pump AHU

- 1 x Horizontal return, horizontal supply
- 1 x Return air fan mounted on the roof of the unit
- 1 x Air to air Heat recovery module / horizontal flow supplied as a loose item for field fitting by others
- 1 x G4/ ISO Coarse 65% metallic frame filters
- 1 x Low noise kit – Acoustic Jackets for the Compressors and EC Condenser fans
- 1 x Electrical heater with a capacity of 27 kW
- 1 x Languard anti-corrosion treatment to the Condenser & Evaporator coils
- 1 x Air quality sensor (CO2) supplied as a loose item for field fitting by others
- 1 x 3 phases relay for unit electrical protection
- 3 x Room type temperature sensors and 1 x Return air sensor supplied as loose items for field fitting by others
- 1 x DS Service tool supplied as a loose item and stored inside the units control panel
- 1 x DM Remote controller supplied as a loose item for field fitting by others
- 1 x Remote control board
- 1 x BACnet MSTP communication interface card to allow the unit to be connected to a remote front end

Commissioning per unit

Transport

Delivery time

Payment terms

Warranty

Commissioning of the Lennox controls by Lennox Industries

During a timed slot during normal working hours excluding offloading

Generally 10 working weeks from receipt of an official order but please check prior to the placing of an order

Lennox UK terms of trading unless otherwise agreed

12 months for parts and labour warranty cover from the date of the unit being commissioned by Lennox