



Strojírenský zkušební ústav, s.p.
(Engineering Test Institute, Public Enterprise)
Hudcova 424/56b, Medlánky, 621 00 Brno, Česká republika
Testing Laboratory 1045.1 accredited by the CAI pursuant to ČSN EN ISO/IEC 17025:2018

Page 1 / 20



TEST REPORT

39-17905/1/H

Product: Outdoor Air/Water Heat Pumps - monobloc

Type designation: Neoheat Eko Mono 15 R290

Customer: IGLOTECH Sp. Z O.O.
Toruńska 41
82-500 Kwidzyn
POLAND

Manufacturer: IGLOTECH Sp. Z O.O.
Toruńska 41
82-500 Kwidzyn
POLAND

Report issue date: 2024-09-19

Distribution list: 1 copy to the Customer
1 copy to the Engineering Test Institute

I. Description of product tested

The Heat pump **Neoheat Eko Mono 15 (R290)** supplied by the company **IGLOTECH Sp. z o.o.** is structurally adapted to operate in air/water system. Device is designed as monobloc placed outdoor and indoor hydrobox hanging on inner wall. Outdoor and indoor units are connected by water pipes. Refrigerant R290 is used with charge 1.5 kg. Power supply is a three-phase. Heat pump is able to work in heating and cooling mode. Heat pump is working with fixed flow rate.

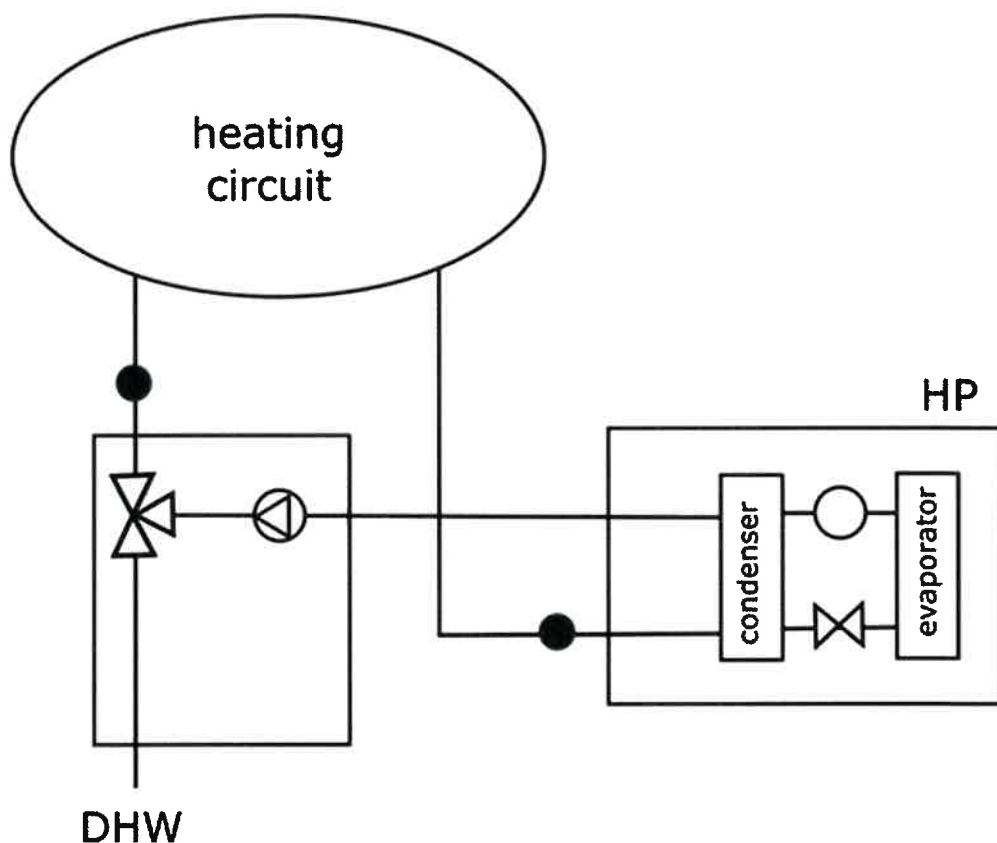
Main components of the outdoor unit **Neoheat Eko Mono 15 (R290)**:

- Serial number AN0278-OD-3016
- Cubic shape with dimensions 1080 × 390 × 1440 mm (W × D × H)
- Frame and casing made of varnished steel sheets
- L-shaped evaporator, 2.5 rows, dimensions 1000 × 55/45 × 1380 mm (W × D × H), spacing 2 mm
- Plate condenser SWEF, dimensions 130 × 140 × 530 mm (W × D × H) including insulation
- Compressor Highly WHP13300PSDPC8FQ
- Refrigerant R290 (1.5 kg)
- Electric expansion valve
- 4-way reversing valve Sanhua SHF-20D-46-02 Y92002
- Refrigerant accumulator
- 2x Axial fan Ø53 cm Nidec
- Pressure sensors
- Temperature sensors
- Refrigerant pipes
- Air vent
- Heat exchanger/accumulator

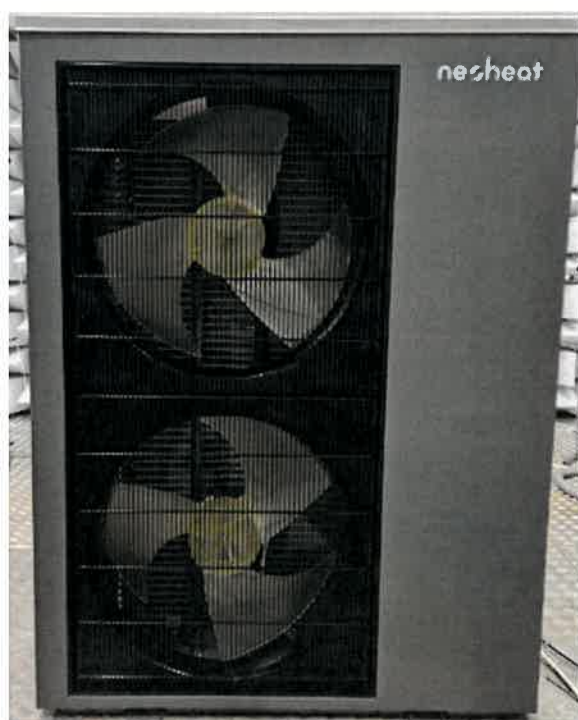
Main components of the indoor unit **Neoheat Eko Mono 15 (R290)**:

- Serial number AN0278-ID-3008
- Cubic shape with dimensions 550 × 240 × 570 mm (W × D × H)
- Frame and casing made of varnished steel
- Electric backup heater
- Circulation pump Shinhoo
- 3-way valve
- Display
- Air vent
- Temperature sensors
- Software
- Flow sensor
- Pressure gauge with relief valve

Scheme:



Photodocumentation:



Heat pump **Neoheat Eko Mono 15 (R290)** – outdoor unit
– Front view –




Heat pump **Neoheat Eko Mono 15 (R290)** – outdoor unit
– Back view –

Not recognised

nesheat

Pompa ciepła powietrze-woda

	O:AN0278
Model:	Neoheat Eko Mono 15 (R290)
Zasilanie:	380-400V/50Hz
Pobór mocy - chłodzenie:	1550-3540 W
Pobór mocy - grzanie:	1120-4170 W
Zabezp. przeciwprądowe:	20 A
Wydajność chłodzenia:	4800-10100 W
Wydajność grzewcza:	5600-16500 W
Ciśnienie po stronie niskiej:	0.82 MPa
Ciśnienie po stronie wysokiej:	3.1 MPa
Czynnik chłodniczy:	R290 / 1500 g
Max EER Chłodzenie:	3.05 W/W
Max COP Grzanie:	5.05 W/W
Waga netto:	145 kg
Do użytku wewnętrznego. Instalacja i serwisowanie wyłącznie przez Autoryzowanego Partnera.	
	

Producent:
Iglotech Sp. z o.o., Toruńska 41, 82-500 Kwidzyn, www.iglotech.com

Numer serii: AN0278-OD-3016



Heat pump **Neoheat Eko Mono 15 (R290)** – outdoor unit
– Compressor label –


Heat pump **Neoheat Eko Mono 15 (R290)** – outdoor unit
– Label –



Heat pump **Neoheat Eko Mono 15 (R290)** – outdoor unit
– Without cover –

nesheat

Pompa ciepła powietrze-woda

	O:AN0278
Model:	Neoheat Eko Mono 15 (R290)
Zasilanie:	380-400V/50Hz
Pobór mocy - chłodzenie:	1550-3540 W
Pobór mocy - grzanie:	1120-4170 W
Zabezp. przeciwprądowe:	20 A
Grzałka elektryczna:	6000 W
Wydajność chłodzenia:	4800-10100 W
Wydajność grzewcza:	5600-16500 W
Układ hydrauliczny:	0.3 MPa
Czynnik chłodniczy:	R290 / 0 g
Max EER Chłodzenie:	3.05 W/W
Max COP Grzanie:	5.05 W/W
Waga netto:	25 kg
Do użytku wewnętrznego. Instalacja i serwisowanie wyłącznie przez Autoryzowanego Partnera.	
	

Producent:
Iglotech Sp. z o.o., Toruńska 41, 82-500 Kwidzyn, www.iglotech.com

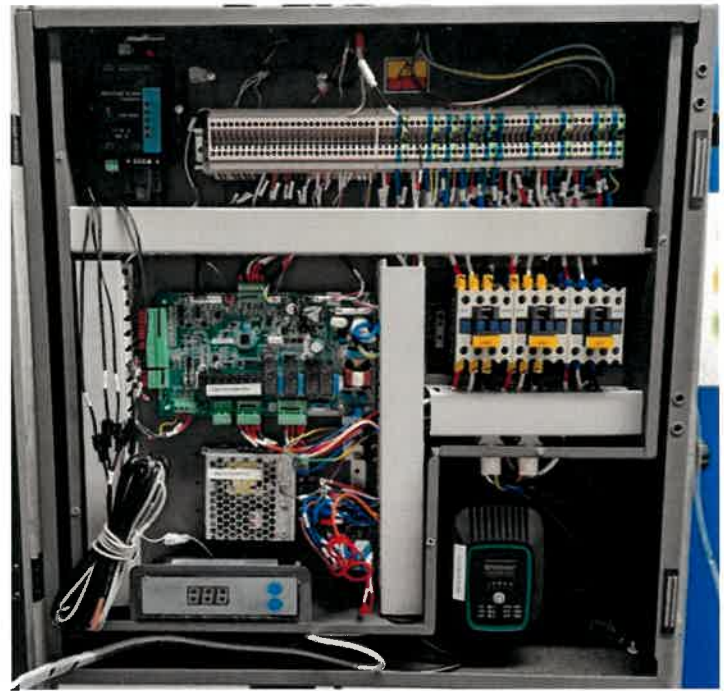
Numer serii: AN0278-ID-3008



Heat pump **Neoheat Eko Mono 15 (R290)** – indoor unit
– Label –



Heat pump **Neoheat Eko Mono 15 (R290)** – indoor unit
– With cover –



Heat pump **Neoheat Eko Mono 15 (R290)** – indoor unit
– Without cover –

II. Sample tested

SZU reg. no.	Product name	Date of submission
1212.24.40408.001-002	Neoheat Eko Mono 15 (R290)	2024-08-21

The visual inspection, tests and verification were carried out by Ing. Ondrej Bilkovič at the test station of SZU. The tests were performed using measuring and testing equipment with valid calibration.

III. Measuring and test equipment:

No.	Description	Inventory number
1.	Electrical energy meter	E1.1 E2.1
2.	Digital watt meter	1.2.1 ENERGIE ANALYZATOR_1 1.2.2 ENERGIE ANALYZATOR_2
3.	Flow meter Krohne Optiflux	8.1.1 TECH_K1_V_DN15 8.1.2 TECH_K2_V_DN15 8.1.3 TECH_K2_V_DN25
4.	Barometer	2.4 MAR18_1_PB
5.	Differential pressure gauge	2.2 MAR18_1_dP 3.2 MAR18_2_dP
6.	Thermometers	2.4 MAR18_T 3.4 MAR18_T
7.	Thermo-hydro meter 608-H1	117043
8.	Tape measure	ME 475
9.	Multi-analyser SINUS SoundBook MK2	000-000-000-875/1
10.	Microphone pair G.R.A.S. 40 AK, wind deflector	000-000-000-875/2
11.	Calibrator G.R.A.S. 42AG	000-000-000-875/3

IV. Methods, results of tests and verifications

No.	Test objective	Requirement	Method of test	Documentation	Test evaluation/ verification *
1.	Calculation of sound power level	Art. 9	ČSN ISO 9614-2:1997	Page No. 9-19	+
2.	Acoustic measurements – Sound power level	Art. 8	ČSN EN 12102-1:2023	Page No. 8-19	+

*) Evaluation / statement of conformity:

+ Requirement fulfilled
0 Not applicable

-..... Requirement not fulfilled
x Not evaluated

Note:

The stated extended measurement uncertainties are calculated as a factor of the measurement uncertainty and the extension coefficient $k=2$, corresponding to the coverage certainty of 95% as regards standard classification.

If a statement of conformity is provided, the decision rule pursuant to ILAC-G8:09/2019, Art. 4.2.1 – binary statement for the simple acceptance rule shall apply.

Test objective:	Heating and cooling equipment
Exact name of the test procedure:	2.136* - Measurement of noise characteristics
Test method:	ČSN EN 12102-1:2023; ČSN ISO 9614-2:1997
Sample tested:	Air/Water Heat pump Neoheat Eko Mono 15 (R290)
Measuring equipment used:	see Chapter III
Place of test:	Engineering Test Institute, Hudcova 424/56b, 621 00 Brno, CZ

Measurement uncertainty:

Measured quantity	Unit	Uncertainty of measurement	Evaluation
Liquid			
- temperature difference (dT)	[K]	$\pm 0.15 \text{ K}$	fulfilled
- temperature inlet/outlet	[°C]	$\pm 0.15 \text{ K}$	fulfilled
- volume flow	[m³/s]	$\pm 1 \%$	fulfilled
- static pressure difference	[kPa]	$\pm 1 \text{ kPa } (\Delta p \leq 20 \text{ kPa})$ or $\pm 5 \%$ ($\Delta p > 20 \text{ kPa}$)	fulfilled
Air			
- dry bulb temperature	[°C]	$\pm 0.2 \text{ K}$	fulfilled
- wet bulb temperature	[°C]	$\pm 0.4 \text{ K}$	fulfilled
- volume flow	[m³/s]	$\pm 5 \%$	not applied
- static pressure difference	[Pa]	$\pm 5 \text{ Pa } (\Delta p \leq 100 \text{ Pa})$ or $\pm 5 \%$ ($\Delta p > 100 \text{ Pa}$)	not applied
Refrigerant			
- pressure at compressor outlet	[kPa]	$\pm 1 \%$	not applied
- temperature	[°C]	$\pm 0.5 \text{ K}$	not applied
Concentration (in volume)			
- heat transfer medium	[%]	± 2	not applied
Electrical quantities			
- electric power	[W]	$\pm 1 \%$	fulfilled
- voltage	[V]	$\pm 0.5 \%$	fulfilled
- current	[A]	$\pm 0.5 \%$	fulfilled
- electric energy	[kWh]	$\pm 1 \%$	not applied
Compressor rotational speed	[min⁻¹]	$\pm 0.5 \%$	not applied
The heating or cooling capacities measured on the liquid side shall be determined within a maximum uncertainty of 5 % independent of the individual uncertainties of measurement including the uncertainties on the properties of fluids.			fulfilled

Note:

Comment to abbreviated marking: e.g. A7/W55

A (air) 7 (input source air temperature in °C) / W (water), 55 (output heating water temperature in °C)

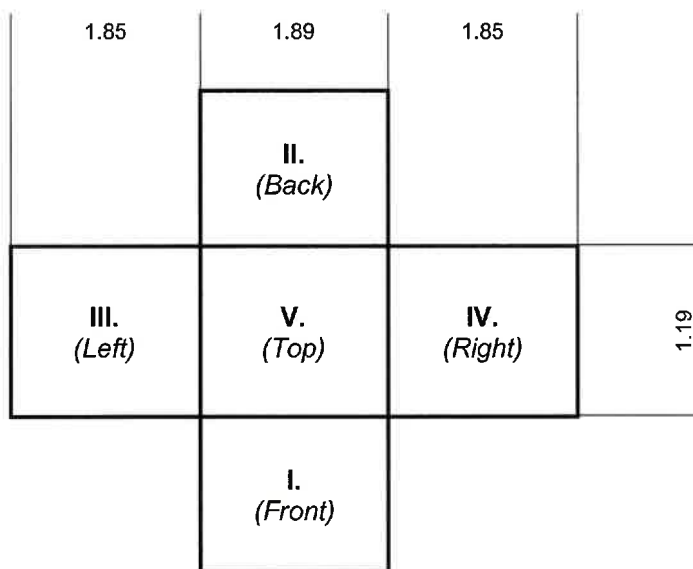
a) Measurement surface

Tested samples were surrounded by a cuboid-shaped measurement surface set at the distance d [m].

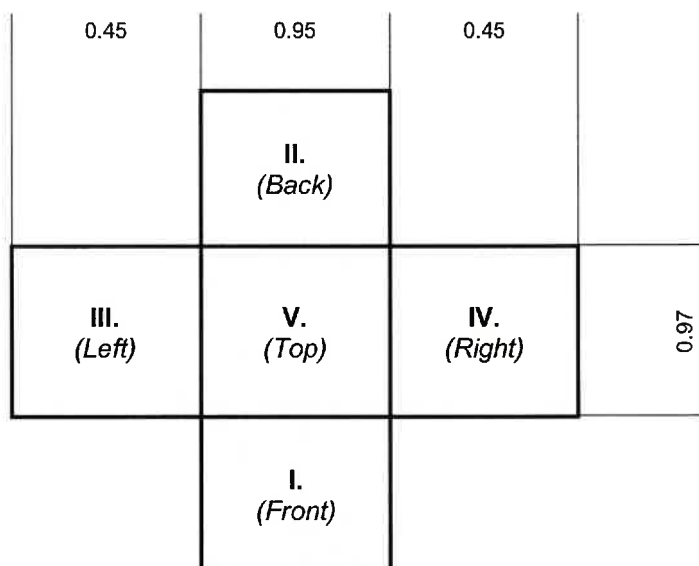
Test Sample: Air/Water Heat pump Neoheat Eko Mono 15 (R290)			Outdoor Unit	Indoor unit
Distance from the test sample	d	[m]	0.40	0.20
Height of measurement surface	h	[m]	1.85	0.45
Width of measurement surface	w	[m]	1.89	0.95
Depth of measurement surface	l	[m]	1.19	0.97
Total measurement surface area	S	[m ²]	13.65	2.65
Minimal measuring time per surface	t_M	[s]	90.00	90.00

Sketch of measurement surface (not to scale):

Air/Water Heat pump **Neoheat Eko Mono 15 (R290)**
– Outdoor unit –



Air/Water Heat pump Neoheat Eko Mono 15 (R290)
– Indoor unit –



b) Acoustic environment

The device under test was placed inside a climate chamber (dimensions shown below). The chamber was acoustically treated to be compliant with ČSN EN ISO 3745:2012 requirements for hemi-anechoic chambers. The background noise was stable with the main noise source being the air conditioning of the climate chamber which was set to lower power or momentarily turned off for sufficient signal to noise ratio. The device under test was placed in a position offset from the middle of the chamber, at a sufficient distance from the surrounding walls, and was rotated by about 5÷10 °. Care was taken to ensure low air flow at the measurement surface by adjusting the measurement distance and positions.

Climate-acoustic chamber <i>(corresponds to free field over a reflecting plane)</i>			Outdoor unit	Indoor Unit
Width of testing room	l_1	[m]	5.60	3.75
Length of testing room	l_2	[m]	4.50	4.50
Height of testing room	l_3	[m]	4.25	4.25

c) Measured and calculated data – General overview:

Test sample			Air/Water Heat pump Neoheat Eko Mono 15 (R290)	Air/Water Heat pump Neoheat Eko Mono 15 (R290)
The measured values are in accordance with ČSN EN 12102-1:2023			YES	YES
The measured values are in accordance with ČSN EN ISO 9614-2:1997			YES	YES
Operation mode			Heating	Heating
Specification of the assessment condition			A7/W55*	A7/W55*
Type of HP capacity regulation			Inverter	Inverter
Compressor speed settings			Mode 1	Mode 1
Fan speed settings			Mode 1	Mode 1
Date of testing (YYYY-MM-DD)			2024-09-04	2024-09-04
Reference air temperature	t_{amb}	[°C]	7.0	20.1
Relative humidity of air	RH	[%]	86.8	56.9
Ambient pressure	p_{amb}	[hPa]	984.5	984.5
Overall sound power level (linear)	L_W	[dB]	62.3 ± 1.5	40.3 ± 1.5
Overall A-weighted sound power level	L_{WA}	[dB(A)]	57.1 ± 1.5	36.6 ± 1.5
Accuracy class			Engineering (grade 2)	

* Comment to abbreviated marking: i.e. A7/W55

A (water), 7 (input source liquid temperature in °C) / W (water), 55 (outlet heating water temperature in °C)

1A) Measurement results – octave bands

Air/Water Heat pump Neoheat Eko Mono 15 (R290) Outdoor unit at A7/W55; Compressor at Mode 1; Fan at Mode 1	Engineering (Grade 2)
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f_m [Hz]	Criterion 1			Criterion 2		Criterion 3	All criteria passed?	L_w [dB]	L_{WA} [dB(A)]	U [dB]	Evaluation
	L_d	F_{pl}	$L_d > F_{pl}$	$F_{+/-}$	$F_{+/-} \leq 3$	$L_{W(1)} - L_{W(2)} \leq 5$					
125	28.5	6.5	YES	0.0	YES	YES	YES	59.0	43.4	± 3.0	passed
250	29.3	2.0	YES	0.0	YES	YES	YES	57.3	48.8	± 2.0	passed
500	29.7	2.5	YES	0.0	YES	YES	YES	56.0	52.5	± 1.5	passed
1000	22.1	2.6	YES	0.0	YES	YES	YES	52.2	52.0	± 1.5	passed
2000	22.3	3.2	YES	0.0	YES	YES	YES	46.9	48.0	± 1.5	passed
4000	20.6	2.9	YES	0.0	YES	YES	YES	41.8	42.8	± 1.5	c
8000 ^{*)}	20.2	4.1	YES	0.0	YES	YES	YES	37.0	36.9	± 2.5	c
Total								62.3	57.1	± 1.5	

^{*)} Due to the sound intensity method limitations, the frequency of 6300 Hz was measured only.

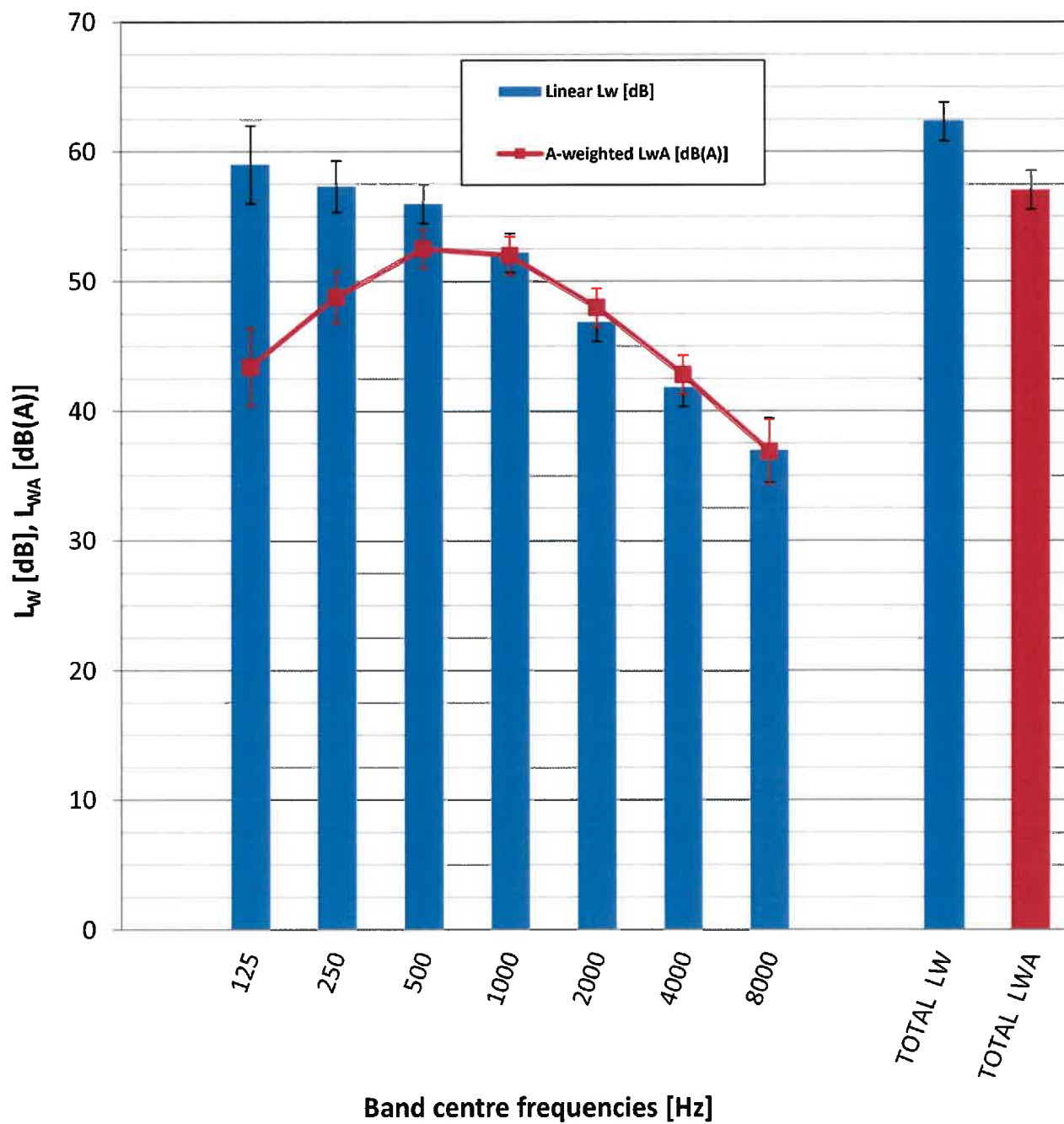
Legend:

- passed* Frequency bands with this description are significant for the calculation of A-weighted total sound power level L_{WA} . Required accuracy class is fulfilled in this band.
- not passed* Frequency bands with this description are significant for the calculation of A-weighted total sound power level L_{WA} . Required accuracy class is not fulfilled in this band.
- c* Frequency bands with this description are not significant for the calculation of A-weighted total sound power level L_{WA} . These bands are evaluated in the calculation of L_{WA} .
- nc* Frequency bands with this description are not significant for the calculation of A-weighted total sound power level L_{WA} . These bands are not evaluated in the calculation of L_{WA} .

Spectrum of Sound power level L_w – octave bands

Air/Water Heat pump **Neoheat Eko Mono 15 (R290)**
Outdoor unit at A7/W55; Compressor at Mode 1; Fan at Mode 1

**Engineering
(Grade 2)**



1B) Measurement results – one-third octave bands

Air/Water Heat pump Neoheat Eko Mono 15 (R290) Outdoor unit at A7/W55; Compressor at Mode 1; Fan at Mode 1	Engineering (Grade 2)
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f_m [Hz]	Criterion 1			Criterion 2		Criterion 3	All criteria passed?	L_W [dB]	L_{WA} [dB(A)]	U [dB]	Evaluation
	L_d	F_{pl}	$L_d > F_{pl}$	$F_{+/-}$	$F_{+/-} \leq 3$	$L_{W(1)} - L_{W(2)} \leq 5$					
100	29.7	5.2	YES	0.0	YES	NO	NO	54.1	35.0	± 3.0	nc
125	28.5	6.5	YES	0.0	YES	YES	YES	54.5	38.4	± 3.0	passed
160	28.6	5.8	YES	0.0	YES	YES	YES	54.1	40.7	± 3.0	passed
200	28.9	2.5	YES	0.0	YES	YES	YES	53.6	42.7	± 2.0	passed
250	29.3	2.0	YES	0.0	YES	YES	YES	51.5	42.9	± 2.0	passed
315	29.5	2.4	YES	0.0	YES	YES	YES	52.4	45.8	± 2.0	passed
400	29.7	2.4	YES	0.0	YES	YES	YES	52.5	47.7	± 1.5	passed
500	29.7	2.5	YES	0.0	YES	YES	YES	50.9	47.7	± 1.5	passed
630	29.6	2.5	YES	0.0	YES	YES	YES	49.7	47.8	± 1.5	passed
800	24.0	2.7	YES	0.0	YES	YES	YES	49.0	48.2	± 1.5	passed
1000	22.1	2.6	YES	0.0	YES	YES	YES	47.0	47.0	± 1.5	passed
1250	22.9	2.7	YES	0.0	YES	YES	YES	45.7	46.3	± 1.5	passed
1600	23.0	2.6	YES	0.0	YES	YES	YES	43.8	44.8	± 1.5	passed
2000	22.3	3.2	YES	0.0	YES	YES	YES	42.4	43.6	± 1.5	passed
2500	21.0	2.8	YES	0.0	YES	YES	YES	38.7	40.0	± 1.5	passed
3150	20.7	2.7	YES	0.0	YES	YES	YES	37.9	39.1	± 1.5	passed
4000	20.6	2.9	YES	0.0	YES	YES	YES	36.7	37.7	± 1.5	c
5000	20.1	2.8	YES	0.0	YES	YES	YES	36.5	37.0	± 1.5	c
6300	20.2	4.1	YES	0.0	YES	YES	YES	32.2	32.1	± 2.5	c
Total								62.3	57.1	± 1.5	

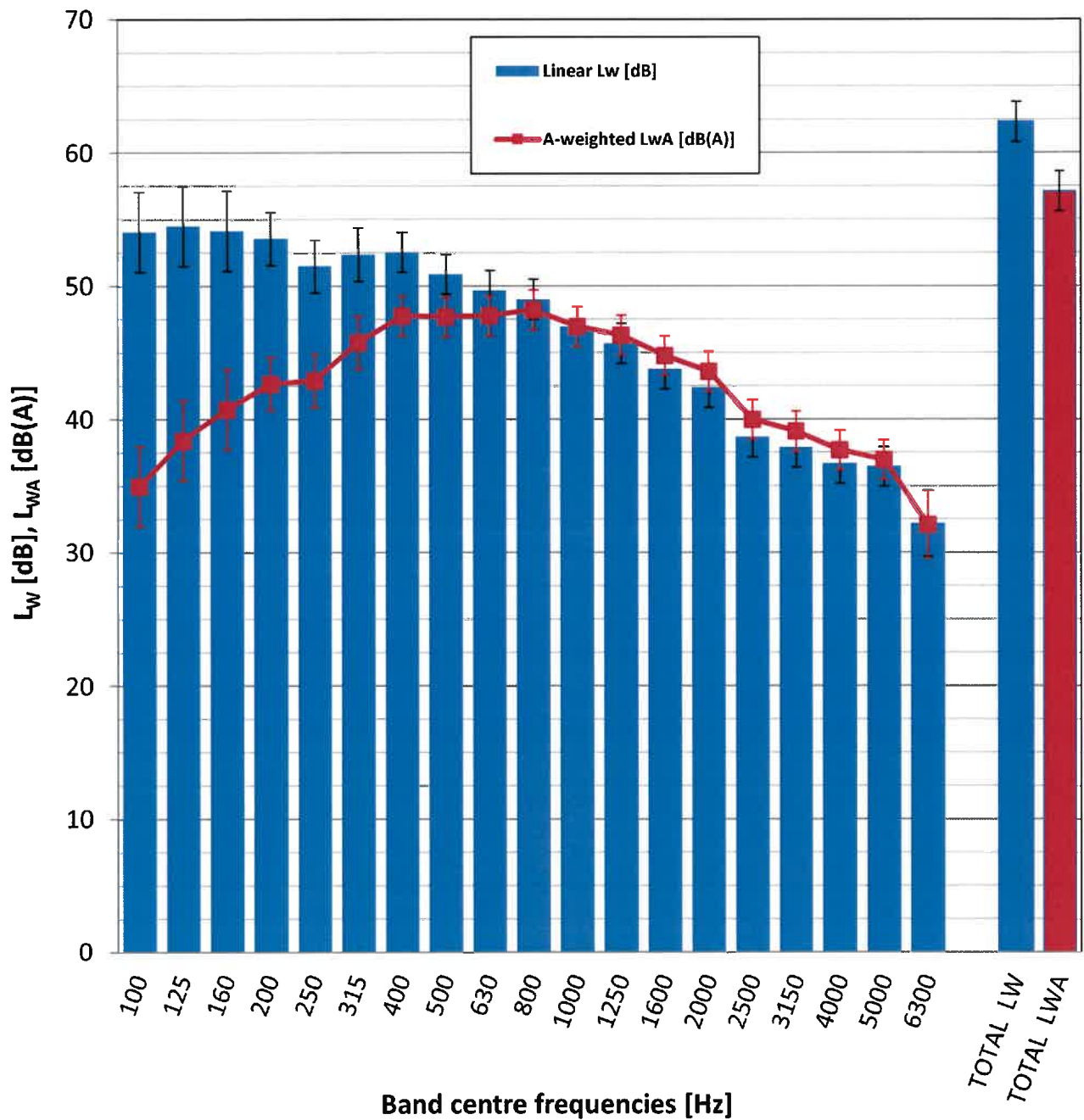
Legend:

- passed* Frequency bands with this description are significant for the calculation of A-weighted total sound power level L_{WA} . Required accuracy class is fulfilled in this band.
- not passed* Frequency bands with this description are significant for the calculation of A-weighted total sound power level L_{WA} . Required accuracy class is not fulfilled in this band.
- c* Frequency bands with this description are not significant for the calculation of A-weighted total sound power level L_{WA} . These bands are evaluated in the calculation of L_{WA} .
- nc* Frequency bands with this description are not significant for the calculation of A-weighted total sound power level L_{WA} . These bands are not evaluated in the calculation of L_{WA} .

Spectrum of Sound power level L_W – one-third octave bands

Air/Water Heat pump **Neoheat Eko Mono 15 (R290)**
Outdoor unit at A7/W55; Compressor at Mode 1; Fan at Mode 1

**Engineering
(Grade 2)**



2A) Measurement results – octave bands

Air/Water Heat pump Neoheat Eko Mono 15 (R290) Outdoor unit at A7/W55; Compressor at Mode 1; Fan at Mode 1	Engineering (Grade 2)
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f_m [Hz]	Criterion 1			Criterion 2		Criterion 3	All criteria passed?	L_w [dB]	L_{WA} [dB(A)]	U [dB]	Evaluation
	L_d	F_{pl}	$L_d > F_{pl}$	$F_{+/-}$	$F_{+/-} \leq 3$	$L_{W(1)} - L_{W(2)} \leq 5$					
125	20.0	10.3	YES	2.5	YES	NO	NO	34.9	20.1	± 3.0	nc
250	20.7	2.3	YES	0.0	YES	YES	YES	33.4	23.5	± 2.0	c
500	20.8	0.0	YES	0.0	YES	YES	YES	37.6	35.3	± 1.5	passed
1000	20.9	10.8	YES	1.9	YES	YES	YES	29.7	29.1	± 1.5	c
2000	20.7	5.4	YES	0.0	YES	NO	NO	17.5	18.7	± 1.5	nc
4000	20.2	10.3	YES	0.6	YES	YES	YES	15.5	16.6	± 1.5	c
8000 ^{*)}	19.9	15.0	YES	0.3	YES	YES	YES	20.4	20.3	± 2.5	c
Total								40.3	36.6	± 1.5	

^{*)} Due to the sound intensity method limitations, the frequency of 6300 Hz was measured only.

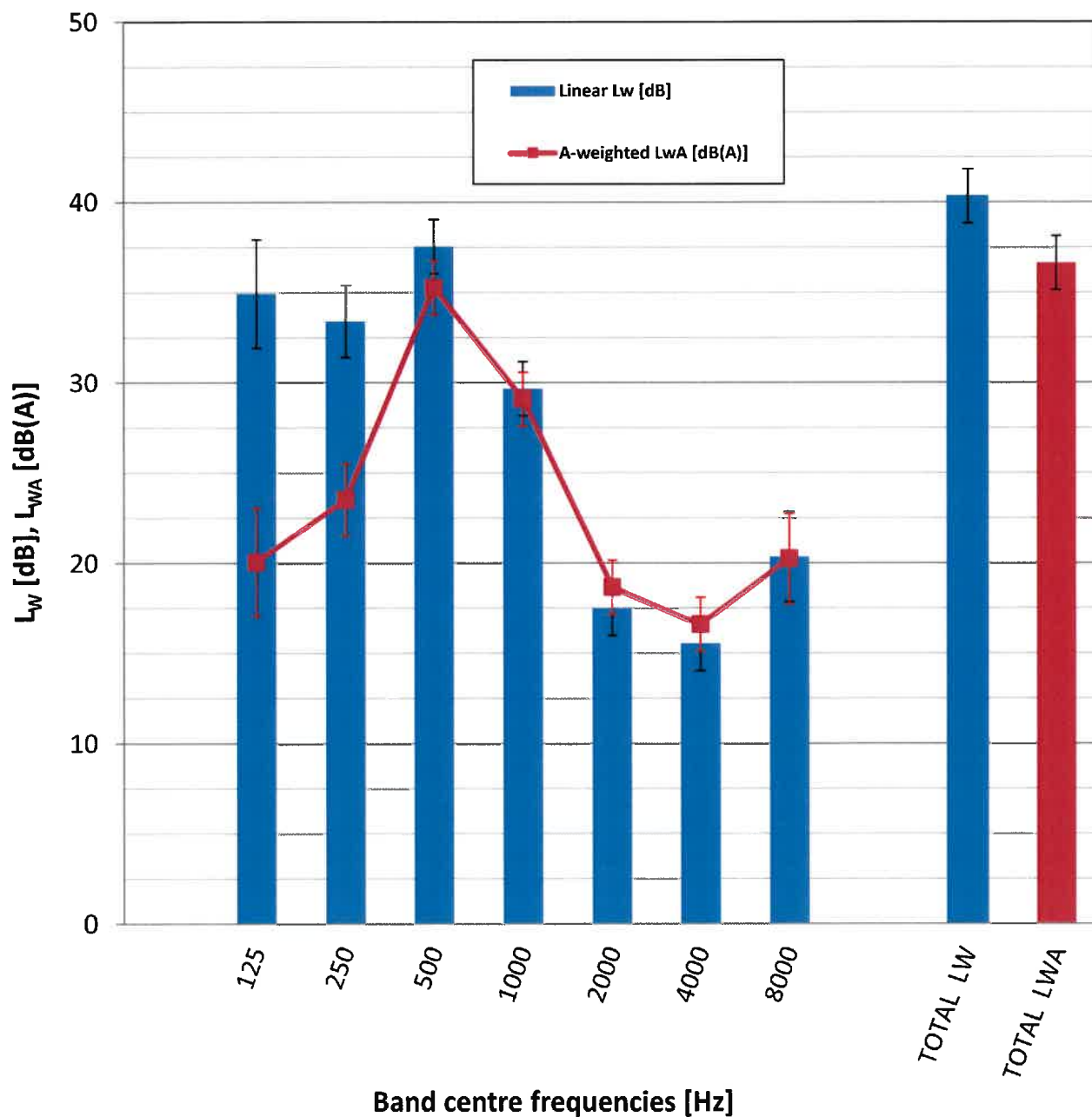
Legend:

<i>passed</i>	Frequency bands with this description are significant for the calculation of A-weighted total sound power level L_{WA} . Required accuracy class is fulfilled in this band.
<i>not passed</i>	Frequency bands with this description are significant for the calculation of A-weighted total sound power level L_{WA} . Required accuracy class is not fulfilled in this band.
<i>c</i>	Frequency bands with this description are not significant for the calculation of A-weighted total sound power level L_{WA} . These bands are evaluated in the calculation of L_{WA} .
<i>nc</i>	Frequency bands with this description are not significant for the calculation of A-weighted total sound power level L_{WA} . These bands are not evaluated in the calculation of L_{WA} .

Spectrum of Sound power level L_w – octave bands

Air/Water Heat pump **Neoheat Eko Mono 15 (R290)**
Outdoor unit at A7/W55; Compressor at Mode 1; Fan at Mode 1

**Engineering
(Grade 2)**



2B) Measurement results – one-third octave bands

Air/Water Heat pump Neoheat Eko Mono 15 (R290) Outdoor unit at A7/W55; Compressor at Mode 1; Fan at Mode 1	Engineering (Grade 2)
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f_m [Hz]	Criterion 1			Criterion 2		Criterion 3	All criteria passed?	L_w [dB]	L_{WA} [dB(A)]	U [dB]	Evaluation
	L_d	F_{pl}	$L_d > F_{pl}$	$F_{+/-}$	$F_{+/-} \leq 3$	$L_{W(1)} - L_{W(2)} \leq 5$					
100	20.6	7.4	YES	0.3	YES	NO	NO	30.9	11.8	± 3.0	nc
125	20.0	10.3	YES	2.5	YES	NO	NO	14.1	0.0	± 3.0	nc
160	20.3	0.0	YES	3.0	YES	YES	YES	32.7	19.3	± 3.0	c
200	20.6	0.4	YES	0.0	YES	YES	YES	32.1	21.2	± 2.0	c
250	20.7	2.3	YES	0.0	YES	YES	YES	26.0	17.4	± 2.0	c
315	21.1	6.0	YES	0.0	YES	NO	NO	22.5	15.9	± 2.0	nc
400	21.1	0.5	YES	0.0	YES	YES	YES	26.6	21.8	± 1.5	c
500	20.8	0.0	YES	0.0	YES	YES	YES	30.1	26.9	± 1.5	passed
630	20.8	2.2	YES	0.0	YES	YES	YES	36.2	34.3	± 1.5	passed
800	21.5	0.0	YES	0.0	YES	YES	YES	29.0	28.2	± 1.5	passed
1000	20.9	10.8	YES	1.9	YES	NO	NO	10.3	10.3	± 1.5	nc
1250	21.2	3.6	YES	0.0	YES	YES	YES	20.7	21.3	± 1.5	c
1600	20.8	6.1	YES	0.0	YES	NO	NO	12.4	13.4	± 1.5	nc
2000	20.7	5.4	YES	0.0	YES	NO	NO	12.8	14.0	± 1.5	nc
2500	20.7	5.7	YES	0.0	YES	YES	YES	12.9	14.2	± 1.5	c
3150	20.3	5.2	YES	0.0	YES	YES	YES	14.0	15.2	± 1.5	c
4000	20.2	10.3	YES	0.6	YES	YES	YES	6.6	7.6	± 1.5	c
5000	19.9	9.1	YES	0.0	YES	YES	YES	8.0	8.5	± 1.5	c
6300	19.9	15.0	YES	0.3	YES	YES	YES	15.6	15.5	± 2.5	c
Total								40.3	36.6	± 1.5	

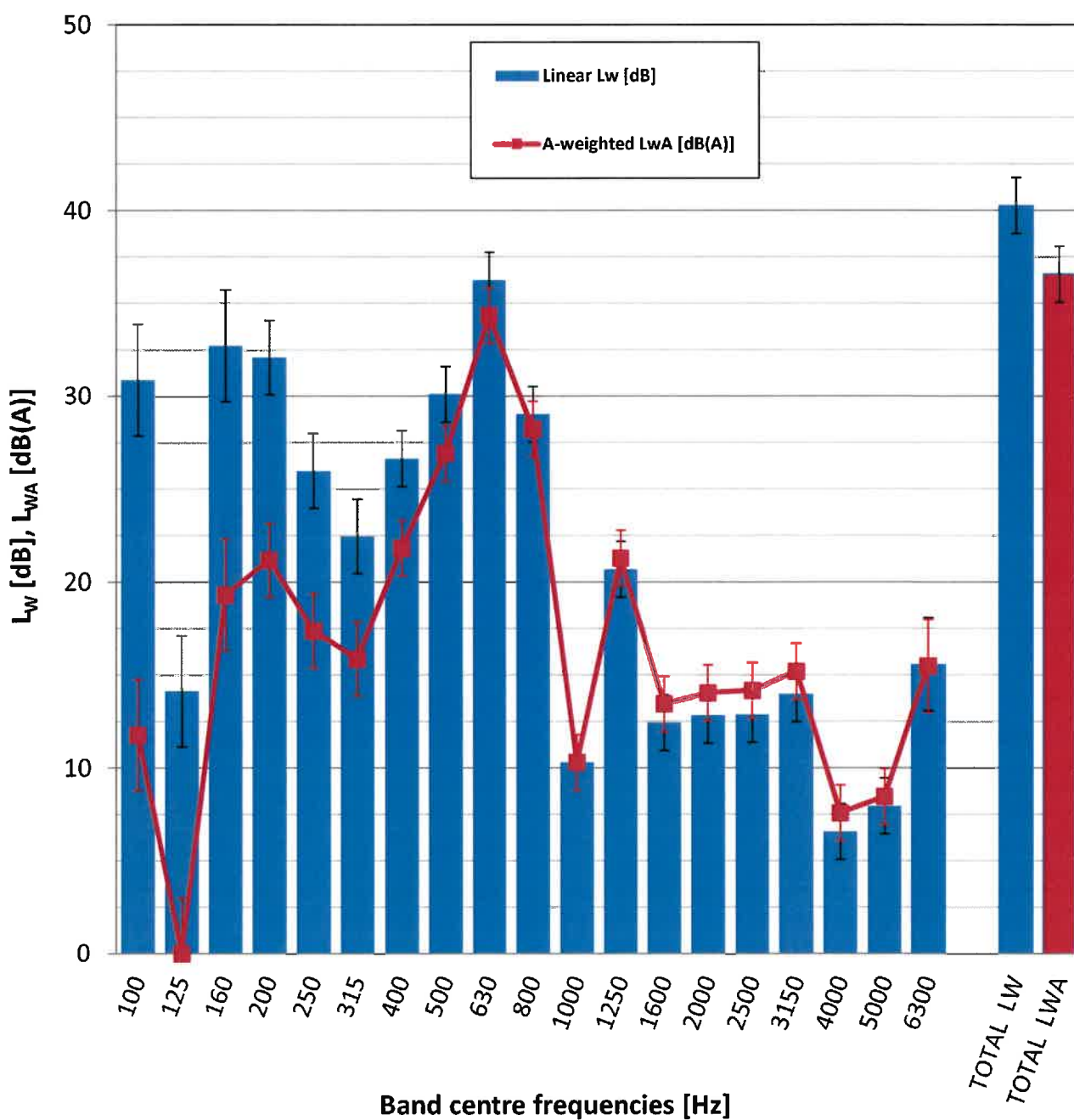
Legend:

<i>passed</i>	Frequency bands with this description are significant for the calculation of A-weighted total sound power level L_{WA} . Required accuracy class is fulfilled in this band.
<i>not passed</i>	Frequency bands with this description are significant for the calculation of A-weighted total sound power level L_{WA} . Required accuracy class is not fulfilled in this band.
<i>c</i>	Frequency bands with this description are not significant for the calculation of A-weighted total sound power level L_{WA} . These bands are evaluated in the calculation of L_{WA} .
<i>nc</i>	Frequency bands with this description are not significant for the calculation of A-weighted total sound power level L_{WA} . These bands are not evaluated in the calculation of L_{WA} .

Spectrum of Sound power level L_w – one-third octave bands

Air/Water Heat pump **Neoheat Eko Mono 15 (R290)**
Outdoor unit at A7/W55; Compressor at Mode 1; Fan at Mode 1

**Engineering
(Grade 2)**



Tested by: Ing. Ondrej Bilkovič

Date: 2024-09-19

Signed:

Reviewed and approved by: Ing. Antonín Kolbábek, Ph.D.

Date: 2024-09-19

Signed:

V. A list of referenced documents

- Order of 2024-06-27 (Order reg. no. B-82538, received on 2024-06-27)
- Contract B-82538/39
- ČSN EN 12102-1:2023 - Air conditioners, liquid chilling packages, heat pumps, process chillers and dehumidifiers with electrically driven compressors - Determination of the sound power level - Part 1: Air conditioners, liquid chilling packages, heat pumps for space heating and cooling, dehumidifiers and process chillers
- ČSN ISO 9614-2:1997 - Acoustics - Determination of sound power levels of noise sources using sound intensity - Part 2: Measurement by scanning
- ČSN EN 14511-2:2023 - Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors - Part 2: Test conditions
- ČSN EN 14511-3:2024 - Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors - Part 3: Test methods
- ČSN EN 14511-4:2023 - Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors - Part 4: Requirements
- ČSN EN 14825:2023 - Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space heating and cooling, commercial and process cooling - Testing and rating at part load conditions and calculation of seasonal performance
- Background of the SZU task no. 39-17905
- Record measurement file 39-17905-H.zip

Test Report compiled by: **Ing. Ondřej Bilkovič**
Test engineer



Test Report approved by: **Ing. Antonín Kolbábek, Ph.D.**
Hydraulic and Pressure Equipment Manager

– End of Test Report –