



Strojírenský zkušební ústav, s.p., Brno, Česká republika
Engineering Test Institute, Public Enterprise, Brno, Czech Republic

TEST CERTIFICATE

Number **O-B-01740-21 rev.1**

Customer

SUNEX S.A.
ul. Piaskowa 7
47-400 Racibórz
POLAND

Product

Outdoor Air/water heat pump – monobloc

Type designation / Trade mark

NEXUS M14 PRO

Test methods

ČSN EN 14511-2:2019, ČSN EN 14511-3:2019,
ČSN EN 14825:2020; ČSN EN 12102-1:2018, EHPA Testing
regulation – Testing of Air/Water Heat Pumps, version 2.4a

Basis of certificate

Test reports:
39-15771/T of 2022-12-07
39-15771/H of 2022-12-07
Technical documents of SUNEX S.A.

Reference heating season

„W“ = warmer
(Reference design temperature $T_{designh} = +2\text{ °C}$)

Results:

LOW TEMPERATURE

(Reference water temperature 35 °C)

MEDIUM TEMPERATURE

(Reference water temperature 55 °C)

9.92			$P_{designh}$ [kW] ... Full load heating			9.78		
6.02 (a)			SCOP [-] ... Seasonal coefficient of performance			4.39 (a)		
Outdoor temperature	Heating declared capacity	Coefficient of performance at the declared capacity	Outdoor temperature	Heating declared capacity	Coefficient of performance at the declared capacity	Outdoor temperature	Heating declared capacity	Coefficient of performance at the declared capacity
T_j [°C]	P_{dh} [kW]	COP_d [-]	T_j [°C]	P_{dh} [kW]	COP_d [-]	T_j [°C]	P_{dh} [kW]	COP_d [-]
$T_j = -7$	—	—	$T_j = -7$	—	—	$T_j = -7$	—	—
$T_j = +2$	9.915	3.608	$T_j = +2$	9.782	2.502	$T_j = +2$	9.782	2.502
$T_j = +7$ (a)	6.400	5.800	$T_j = +7$ (a)	6.100	4.000	$T_j = +7$ (a)	6.100	4.000
$T_j = +12$ (a)	5.600	6.900	$T_j = +12$ (a)	5.300	5.300	$T_j = +12$ (a)	5.300	5.300
$T_j = TOL = 2$	9.915	3.608	$T_j = TOL = 2$	9.782	2.502	$T_j = TOL = 2$	9.782	2.502
$T_j = T_{bivalent} = 2$	9.915	3.608	$T_j = T_{bivalent} = 2$	9.782	2.502	$T_j = T_{bivalent} = 2$	9.782	2.502





LOW TEMPERATURE

(Reference water temperature 35 °C)

MEDIUM TEMPERATURE

(Reference water temperature 55 °C)

Power consumption in modes other than „active mode“:

16.6	Off mode	P _{OFF}	[W]	16.6
16.7	Thermostat off mode	P _{TO}	[W]	16.7
16.6	Standby mode	P _{SB}	[W]	16.6
0	Crankcase heater mode	P _{CK}	[W]	0

Annual electricity consumption for heating according to:

2200 ^(a)	ČSN EN 14825:2020	Q _{HE}	[kWh]	2976 ^(a)
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Seasonal Space heating energy efficiency

237.8 ^(a)	ČSN EN 14825:2020	η _s	[%]	172.6 ^(a)
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Liquid flow rate in outdoor heating exchanger:

—	Source liquid	Min/Max	[m ³ /h]	—
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Liquid flow rate in indoor heating exchanger:

0.525/2.351	Heating water	Min/Max	[m ³ /h]	0.525/2.351
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Sound power level at condition A7W55* (at 24 %):

NEXUS M14 PRO

— outdoor unit —

— indoor unit —

L _{WA}	57.9 ± 1.5	dB(A)	Accuracy class 2 (Engineering)
L _{WA}	—	dB(A)	—

(*) Comment to abbreviated marking: e.g. A7/W55

„A“ air, „7“ inlet temperature (dry-bulb temperature) in °C, „W“ water, „35“ outlet temperature in °C.

(a) The technical data were declared by the manufacturer or calculated of data declared by the manufacturer and were not tested by the Testing Laboratory.

Specification of conditions:

Compressor speed control	Variable	Heating water volume flow rate (indoor heat exchanger)	Variable
Outlet water temperature (indoor heat exchanger)	Variable	Source liquid volume flow rate (outdoor heat exchanger)	—
Function	Reversible		

Engineering Test Institute, Public Enterprise, confirms by this Test Certificate that the testing of the product in question was performed with the results as stated above. Engineering Test Institute, Public Enterprise, is an accredited Testing Laboratory 1045.1.

Brno, 2022-12-07

Milan Holomek

Head of Heat and Environment-Friendly Equipment Test Station

— END OF TEST CERTIFICATE —





Strojírenský zkušební ústav, s.p., Brno, Česká republika
Engineering Test Institute, Public Enterprise, Brno, Czech Republic

TEST CERTIFICATE

Number **O-B-01741-21 rev.1**

Customer **SUNEX S.A.**
ul. Piaskowa 7
47-400 Racibórz
POLAND

Product **Outdoor Air/water heat pump – monobloc**

Type designation / Trade mark **NEXUS M14 PRO**

Test methods **ČSN EN 14511-2:2019, ČSN EN 14511-3:2019,
ČSN EN 14825:2020; ČSN EN 12102-1:2018, EHPA Testing
regulation – Testing of Air/Water Heat Pumps, version 2.4a**

Basis of certificate **Test reports:
39-15771/T of 2022-12-07
39-15771/H of 2022-12-07
Technical documents of SUNEX S.A.**

Reference heating season **„C“ = colder
(Reference design temperature $T_{designh} = -22\text{ °C}$)**

Results:

LOW TEMPERATURE
(Reference water temperature 35 °C)

MEDIUM TEMPERATURE
(Reference water temperature 55 °C)

14.23	$P_{designh}$ [kW] ... Full load heating			14.21	
3.68 ^(a)	SCOP [-] ... Seasonal coefficient of performance			3.07 ^(a)	
Outdoor temperature	Heating declared capacity	Coefficient of performance at the declared capacity	Outdoor temperature	Heating declared capacity	Coefficient of performance at the declared capacity
T_j [°C]	P_{dh} [kW]	COP_d [-]	T_j [°C]	P_{dh} [kW]	COP_d [-]
$T_j = -7$ ^(a)	8.613	3.351	$T_j = -7$ ^(a)	8.598	2.642
$T_j = +2$ ^(a)	4.900	4.900	$T_j = +2$ ^(a)	5.000	4.100
$T_j = +7$ ^(a)	5.200	6.400	$T_j = +7$ ^(a)	5.000	5.200
$T_j = +12$	5.600	6.800	$T_j = +12$ ^(a)	5.500	5.700
$T_j = TOL = -22$ ^(a)	5.000	1.700	$T_j = TOL = -22$	5.300	1.300
$T_j = T_{bivalent} = -7$	8.613	3.351	$T_j = T_{bivalent} = -7$	8.598	2.642
$T_j = -15$ ^(a)	7.083	2.653	$T_j = -15$ ^(a)	6.914	1.955



LOW TEMPERATURE

(Reference water temperature 35 °C)

MEDIUM TEMPERATURE

(Reference water temperature 55 °C)

Power consumption in modes other than „active mode“:

16.6	Off mode	P _{OFF}	[W]	16.6
16.7	Thermostat off mode	P _{TO}	[W]	16.7
16.6	Standby mode	P _{SB}	[W]	16.6
0	Crankcase heater mode	P _{CK}	[W]	0

Annual electricity consumption for heating according to:

9525 ^(a)	ČSN EN 14825:2020	Q _{HE}	[kWh]	11390 ^(a)
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Seasonal Space heating energy efficiency

144.3 ^(a)	ČSN EN 14825:2020	η _s	[%]	120.0 ^(a)
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Liquid flow rate in outdoor heating exchanger:

–	Source liquid	Min/Max	[m ³ /h]	–
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Liquid flow rate in indoor heating exchanger:

0.525/2.351	Heating water	Min/Max	[m ³ /h]	0.525/2.351
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Sound power level at condition A7W55* (at 24 %):

NEXUS M14 PRO

– outdoor unit –

– indoor unit –

L _{WA}	57.9 ± 1.5	dB(A)
L _{WA}	–	dB(A)

Accuracy class 2 (Engineering)

(*) Comment to abbreviated marking: e.g. A7/W55

„A“ air, „7“ inlet temperature (dry-bulb temperature) in °C, „W“ water, „55“ outlet temperature in °C.

^(a) The technical data were declared by the manufacturer or calculated of data declared by the manufacturer and were not tested by the Testing Laboratory.

Specification of conditions:

Compressor speed control	Variable	Heating water volume flow rate (indoor heat exchanger)	Variable
Outlet water temperature (indoor heat exchanger)	Variable	Source liquid volume flow rate (outdoor heat exchanger)	–
Function	Reversible		

Engineering Test Institute, Public Enterprise, confirms by this Test Certificate that the testing of the product in question was performed with the results as stated above. Engineering Test Institute, Public Enterprise, is an accredited Testing Laboratory 1045.1.

Brno, 2022-12-07

Milan Holomek

Head of Heat and Environment-Friendly Equipment Test Station

– END OF TEST CERTIFICATE –





Strojírenský zkušební ústav, s.p., Brno, Česká republika
Engineering Test Institute, Public Enterprise, Brno, Czech Republic

TEST CERTIFICATE

Number **O-B-01929-22**

Customer **SUNEX S.A.**
ul. Piaskowa 7
47-400 Racibórz
POLAND

Product **Air/water heat pump – monobloc**

Type designation / Trade mark **NEXUS M14 PRO**
NEXUS M9 PRO

Test methods **ČSN EN 14511-2:2019, ČSN EN 14511-3:2019,**
ČSN EN 14511-4:2019, ČSN EN 12102-1:2018, EHPA Testing
regulation – Testing of Air/Water Heat Pumps, version 2.4a

Basis of certificate **Test reports:**
39-15771/T of 2022-12-07
39-15771/H of 2022-12-07
Technical documents of SUNEX S.A.

Temperature application **LOW TEMPERATURE,**
(Reference water temperature 35 °C)
MEDIUM TEMPERATURE
(Reference water temperature 55 °C)

Specification of conditions:

Compressor speed control	Variable	Heating water volume flow rate (indoor heat exchanger)	Variable
Outlet water temperature (indoor heat exchanger)	Variable	Source liquid volume flow rate (outdoor heat exch.)	Variable
Function	Reversible		



**Results:**

Model names		NEXUS M14 PRO	NEXUS M9 PRO
Temperature condition*		(Tested)	(Not tested)
A7/W35	Corrected heat capacity [kW]	13.592	10.000
	Effective power input [kW]	2.896	2.237
	Coefficient of performance [-]	4.694	4.470
	Control settings [-]	-	-
A2/W35	Corrected heat capacity [kW]	9.917	7.700
	Effective power input [kW]	2.737	2.110
	Coefficient of performance [-]	3.623	3.650
	Control settings [-]	-	-

Sound power level at condition A7/W55*:

LWA	[dB(A)]	57.9 ± 1.5	58.0 ± 1.5
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Accuracy class

Engineering (2)

(*) Comment to abbreviated marking e.g. A7W35:

„A“ air, „7“ inlet temperature (dry-bulb temperature) in °C, „W“ water, „35“ outlet temperature in °C.

(Tested) This test sample was tested at the Testing Laboratory.

(Not tested) The technical data were declared by the Manufacturer according to the model range specifications and were not tested by the Testing Laboratory.

Engineering Test Institute, Public Enterprise, confirms by this Test Certificate that the testing of the product in question was performed with the results as stated above. Engineering Test Institute, Public Enterprise, is an accredited Testing Laboratory 1045.1.

Brno, 2022-12-07


Milan Holomek

Head of Heat and Environment-Friendly Equipment Test Station

- END OF TEST CERTIFICATE -





Strojírenský zkušební ústav, s.p., Brno, Česká republika
Engineering Test Institute, Public Enterprise, Brno, Czech Republic

TEST CERTIFICATE

Number **O-B-01930-22**

Customer **SUNEX S.A.**
ul. Piaskowa 7
47-400 Racibórz
POLAND

Product **Air/water heat pump – monobloc**

Type designation / Trade mark **NEXUS M14 PRO**
NEXUS M9 PRO

Test methods **ČSN EN 14511-3:2019, ČSN EN 14825:2020; EHPA Testing regulation – Testing of Air/Water Heat Pumps, version 2.4a**

Basis of certificate **Test reports:**
39-15771/T of 2022-12-07
39-15771/H of 2022-12-07
Technical documents of SUNEX S.A.

Temperature application **LOW TEMPERATURE**
(Reference water temperature 35 °C)

Reference heating season **„A“ = average / „W“ = warmer / „C“ = colder**
(Reference design conditions for heating $T_{designh} = -10\text{ °C} / +2\text{ °C} / -22\text{ °C}$)

Specification of conditions:

Compressor speed control	Variable	Heating water volume flow rate (indoor heat exchanger)	Variable
Outlet water temperature (indoor heat exchanger)	Variable	Source liquid volume flow rate (outdoor heat exchanger)	Variable
Function	Reversible		



**Results:****Low temperature application**

(Reference water temperature 35 °C)

Model names		NEXUS M14 PRO		NEXUS M9 PRO	
		(Tested)		(Not tested)	
Full load heating	P_{designh} [kW]	A	9.71		7.52
		W	9.92		7.70
		C	14.23		10.85
Bivalent temperature	T_{bivalent} [°C]	A	-7		-7
		W	2		2
		C	-7		-7
Seasonal coefficient of performance	SCOP [-]	A	5.02		4.79
		W	6.02 (Not tested)		5.91
		C	3.68 (Not tested)		3.59
Seasonal Space heating energy efficiency	η_s [%]	A	197.8		188.7
		W	237.8 (Not tested)		233.6
		C	144.3 (Not tested)		140.5

(*) Comment to abbreviated marking e.g. A7W35:

„A“ air, „7“ inlet temperature (dry-bulb temperature) in °C, „W“ water, „35“ outlet temperature in °C.

(Tested) This test sample was tested at the Testing Laboratory.

(Not tested) The technical data were declared by the Manufacturer according to the model range specifications and were not tested by the Testing Laboratory.

Engineering Test Institute, Public Enterprise, confirms by this Test Certificate that the testing of the product in question was performed with the results as stated above. Engineering Test Institute, Public Enterprise, is an accredited Testing Laboratory 1045.1.

Brno, 2022-12-07


Milan Holomek

Head of Heat and Environment-Friendly Equipment Test Station

- END OF TEST CERTIFICATE -





Strojírenský zkušební ústav, s.p., Brno, Česká republika
Engineering Test Institute, Public Enterprise, Brno, Czech Republic

TEST CERTIFICATE

Number **O-B-01931-22**

Customer **SUNEX S.A.**
ul. Piaskowa 7
47-400 Racibórz
POLAND

Product **Air/water heat pump – monobloc**

Type designation / Trade mark **NEXUS M14 PRO**
NEXUS M9 PRO

Test methods **ČSN EN 14511-3:2019, ČSN EN 14825:2020; EHPA Testing regulation – Testing of Air/Water Heat Pumps, version 2.4a**

Basis of certificate **Test reports:**
39-15771/T of 2022-12-07
39-15771/H of 2022-12-07
Technical documents of SUNEX S.A.

Temperature application **MEDIUM TEMPERATURE**
(Reference water temperature 55 °C)

Reference heating season **„A“ = average / „W“ = warmer / „C“ = colder**
(Reference design conditions for heating $T_{designh} = -10\text{ °C} / +2\text{ °C} / -22\text{ °C}$)

Specification of conditions:

Compressor speed control	Variable	Heating water volume flow rate (indoor heat exchanger)	Variable
Outlet water temperature (indoor heat exchanger)	Variable	Source liquid volume flow rate (outdoor heat exchanger)	Variable
Function	Reversible		



**Results:****Medium temperature application**
(Reference water temperature 55 °C)

Model names		NEXUS M14 PRO		NEXUS M9 PRO
		(Tested)		(Not tested)
Full load heating	P_{designh} [kW]	A	9.49	7.10
		W	9.78	7.42
		C	14.21	10.79
Bivalent temperature	T_{bivalent} [°C]	A	-7	-7
		W	2	2
		C	-7	-7
Seasonal coefficient of performance	SCOP [-]	A	3.73	3.61
		W	4.39 (Not tested)	4.23
		C	3.07 (Not tested)	2.95
Seasonal Space heating energy efficiency	η_s [%]	A	146.4	141.6
		W	172.6 (Not tested)	166.2
		C	120.0 (Not tested)	114.9

(*) Comment to abbreviated marking e.g. A7W35:

„A“ air, „7“ inlet temperature (dry-bulb temperature) in °C, „W“ water, „35“ outlet temperature in °C.

(Tested) This test sample was tested at the Testing Laboratory.

(Not tested) The technical data were declared by the Manufacturer according to the model range specifications and were not tested by the Testing Laboratory.

Engineering Test Institute, Public Enterprise, confirms by this Test Certificate that the testing of the product in question was performed with the results as stated above. Engineering Test Institute, Public Enterprise, is an accredited Testing Laboratory 1045.1.

Brno, 2022-12-07


Milan Holomek

Head of Heat and Environment-Friendly Equipment Test Station

- END OF TEST CERTIFICATE -





Strojírenský zkušební ústav, s.p., Brno, Česká republika
Engineering Test Institute, Public Enterprise, Brno, Czech Republic

TEST CERTIFICATE

Number **O-B-01970-21 rev.1**

Customer / Manufacturer

SUNEX S.A.
ul. Piaskowa 7
47-400 Racibórz
POLAND

Product

Outdoor Air/water heat pump – monobloc

Type designation / Trademark

NEXUS M14 PRO

Test methods

ČSN EN 14511-2:2019, ČSN EN 14511-3:2019,
ČSN EN 14825:2020; ČSN EN 12102-1:2018, EHPA Testing
regulation – Testing of Air/Water Heat Pumps, version 2.4a,
Commission regulation (EU) No 813/2013

Basis of test certificate

Test reports:
39-15771/T of 2022-12-07
39-15771/H of 2022-12-07
Technical documents of SUNEX S.A.

Temperature application

LOW TEMPERATURE
(Reference water temperature 35 °C)
MEDIUM TEMPERATURE
(Reference water temperature 55 °C)

Reference heating season

„A“ = average
(Reference design temperature $T_{designh} = -10\text{ °C}$)

Specification of conditions:

Compressor speed control	Variable	Heating water volume flow rate (indoor heat exchanger)	Variable
Outlet water temperature (indoor heat exchanger)	Variable	Source liquid volume flow rate (outdoor heat exchanger)	—
Function	Reversible		





Tab. 1: COMPLETION OF REQUIREMENTS FOR SEASONAL SPACE HEATING ENERGY EFFICIENCY

Model names		Seasonal space heating energy efficiency				Completion of requirements
		Low temperature (requirement 125 %)		Medium temperature (requirement 110 %)		
		Declared/ tested value [%]	Efficiency class	Declared/ tested value [%]	Efficiency class	
NEXUS M14 PRO	(Tested)	197.8	A+++	146.4	A++	Yes

Tab. 2: COMPLETION OF REQUIREMENTS FOR SOUND POWER LEVEL

Model names	Rated heat output [kW]	Requirements for sound power level		Declared/tested sound power level		Completion of requirements
		outdoor unit [dB(A)]	indoor unit [dB(A)]	outdoor unit [dB(A)]	indoor unit [dB(A)]	
NEXUS M14 PRO (Tested)	9.49	70	–	57.9	–	Yes

(Tested) This test sample was tested at the Testing Laboratory.

(Not tested) The technical data were declared by the Manufacturer according to the model range specifications and were not tested by the Testing Laboratory.

Engineering Test Institute, Public Enterprise, confirms by this Test Certificate that the testing of the product in question was performed with the results as stated above. Engineering Test Institute, Public Enterprise, is an accredited Testing Laboratory 1045.1.

Brno, 2022-12-07


Milan Holomek

Head of Heat and Environment-Friendly Equipment Test Station

– END OF TEST CERTIFICATE –





Strojírenský zkušební ústav, s.p., Brno, Česká republika
Engineering Test Institute, Public Enterprise, Brno, Czech Republic

TEST CERTIFICATE

Number **O-B-01738-21 rev.1**

Customer **SUNEX S.A.**
ul. Piaskowa 7
47-400 Racibórz
POLAND

Product **Outdoor Air/water heat pump – monobloc**

Type designation / Trade mark **NEXUS M14 PRO**

Test methods **ČSN EN 14511-2:2019, ČSN EN 14511-3:2019,
ČSN EN 14511-4:2019, ČSN EN 12102-1:2018, ČSN EN 12102-
1:2018, EHPA Testing regulation – Testing of Air/Water Heat Pumps,
version 2.4a**

Basis of certificate **Test reports:
39-15771/T of 2022-12-07
39-15771/H of 2022-12-07
Technical documents of SUNEX S.A.**

Temperature application **LOW TEMPERATURE,
(Reference water temperature 35 °C)
MEDIUM TEMPERATURE
(Reference water temperature 55 °C)**

Temperature conditions*	A7/W35	A7/W35	A2/W35	A-7/W35	A7/W55
Corrected heat capacity [kW]	13.592	8.624	9.917	8.511	9.540
Effective electric power input [kW]	2.896	1.655	2.737	2.802	2.965
Coefficient of performance [-]	4.694	5.210	3.623	3.037	3.218
Compressor settings [%]	67	42	67	67	50

(*) Comment to abbreviated marking: e.g. A7/W35

A (air), 7 (input air – dry bulb temperature in °C) / W (water), 35 (output heating (cooling) water temperature in °C).



O-B-01738-21 rev.1, page 1 (2)

Strojírenský zkušební ústav, s.p., Hudcova 424/56b, 621 00 Brno, Česká republika
Engineering Test Institute, public enterprise, Hudcova 424/56b, 621 00 Brno, Czech Republic

www.szutest.cz





Sound power level at temperature condition A7/W55* (at 24 %):

Air/Water Heat Pump –split

NEXUS M14 PRO

– outdoor unit –

– indoor unit –

Sound power level

L_{WA} 57.9 ± 1.5 dB(A)

L_{WA} – dB(A)

Accuracy class

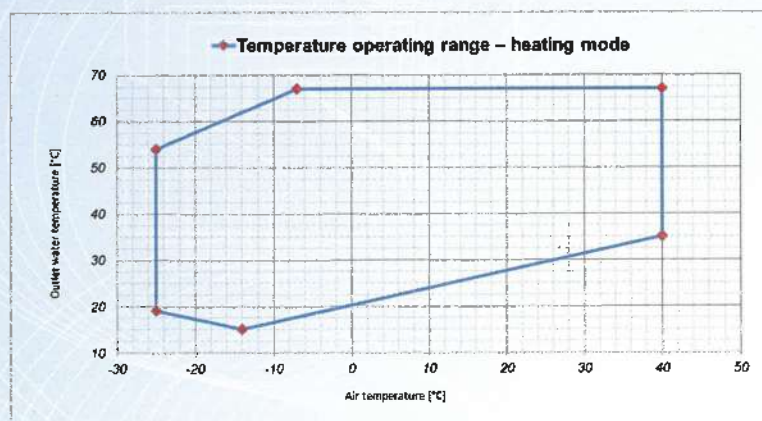
Engineering (grade 2)

–

(*) Comment to abbreviated marking: e.g. A7/W55

A (air), 7 (input air – dry bulb temperature in °C) / W (water), 55 (output heating (cooling) water temperature in °C).

Temperature operating range:



Liquid flow rate in:

outdoor heating exchanger

Minimum – m³/h
Maximum – m³/h

indoor heating exchanger

Minimum 0.525 m³/h
Maximum 2.351 m³/h

Complies with
ČSN EN 14511-4:2019, articles:

4.2.1.2, 4.5, 4.6

Specification of conditions:

Compressor speed control	Variable	Heating water volume flow rate (indoor heat exchanger)	Variable
Outlet water temperature (indoor heat exchanger)	Variable	Source liquid volume flow rate (outdoor heat exchanger)	–
Function	Reversible		

Engineering Test Institute, Public Enterprise, confirms by this Test Certificate that the testing of the product in question was performed with the results as stated above. Engineering Test Institute, Public Enterprise, is an accredited Testing Laboratory 1045.1.

Brno, 2022-12-07

Milan Holomek

Head of Heat and Environment-Friendly Equipment Test Station

– END OF TEST CERTIFICATE –





Strojírenský zkušební ústav, s.p., Brno, Česká republika
Engineering Test Institute, Public Enterprise, Brno, Czech Republic

TEST CERTIFICATE

Number **O-B-01739-21 rev.1**

Customer **SUNEX S.A.**
ul. Piaskowa 7
47-400 Racibórz
POLAND

Product **Outdoor Air/water heat pump – monobloc**

Type designation / Trade mark **NEXUS M14 PRO**

Test methods **ČSN EN 14511-2:2019, ČSN EN 14511-3:2019,
ČSN EN 14825:2020; ČSN EN 12102-1:2018, EHPA Testing
regulation – Testing of Air/Water Heat Pumps, version 2.4a**

Basis of certificate **Test reports:
39-15771/T of 2022-12-07
39-15771/H of 2022-12-07
Technical documents of SUNEX S.A.**

Reference heating season **„A“ = average
(Reference design temperature $T_{designh} = -10\text{ °C}$)**

Results:

LOW TEMPERATURE
(Reference water temperature 35 °C)

MEDIUM TEMPERATURE
(Reference water temperature 55 °C)

9.71	$P_{designh}$ [kW] ... Full load heating				9.49
5.02	SCOP [-] ... Seasonal coefficient of performance				3.73
Outdoor temperature T_j [°C]	Heating declared capacity P_{dh} [kW]	Coefficient of performance at the declared capacity COP_d [-]	Outdoor temperature T_j [°C]	Heating declared capacity P_{dh} [kW]	Coefficient of performance at the declared capacity COP_d [-]
$T_j = -7$	8.592	3.112	$T_j = -7$	8.399	2.254
$T_j = +2$	5.242	5.092	$T_j = +2$	5.002	3.758
$T_j = +7$	5.165	6.441	$T_j = +7$	4.857	4.795
$T_j = +12$	5.621	7.529	$T_j = +12$	5.391	5.765
$T_j = TOL = -10$	7.980	2.839	$T_j = TOL = -10$	8.517	2.098
$T_j = T_{bivalent} = -7$	8.592	3.112	$T_j = T_{bivalent} = -7$	8.399	2.254





LOW TEMPERATURE

(Reference water temperature 35 °C)

MEDIUM TEMPERATURE

(Reference water temperature 55 °C)

Power consumption in modes other than „active mode“:

16.6	Off mode	P _{OFF}	[W]	16.6
16.7	Thermostat off mode	P _{TO}	[W]	16.7
16.6	Standby mode	P _{SB}	[W]	16.6
0	Crankcase heater mode	P _{CK}	[W]	0

Annual electricity consumption for heating according to:

3997	ČSN EN 14825:2020	Q _{HE}	[kWh]	5252
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Seasonal Space heating energy efficiency

197.8	ČSN EN 14825:2020	η _s	[%]	146.4
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Liquid flow rate in outdoor heating exchanger:

–	Source liquid	Min/Max	[m³/h]	–
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Liquid flow rate in indoor heating exchanger:

0.525/2.351	Heating water	Min/Max	[m³/h]	0.525/2.351
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Sound power level at condition A7W55* (at 24 %):

NEXUS M14 PRO

– outdoor unit –

– indoor unit –

L _{WA}	57.9 ± 1.5	dB(A)
L _{WA}	–	dB(A)

Accuracy class 2 (Engineering)

(*) Comment to abbreviated marking: e.g. A7/W55

„A“ air, „7“ inlet temperature (dry-bulb temperature) in °C, „W“ water, „55“ outlet temperature in °C.

Specification of conditions:

Compressor speed control	Variable	Heating water volume flow rate (indoor heat exchanger)	Variable
Outlet water temperature (indoor heat exchanger)	Variable	Source liquid volume flow rate (outdoor heat exchanger)	–
Function	Reversible		

Engineering Test Institute, Public Enterprise, confirms by this Test Certificate that the testing of the product in question was performed with the results as stated above. Engineering Test Institute, Public Enterprise, is an accredited Testing Laboratory 1045.1.

Brno, 2022-12-07

Milan Holomek

Head of Heat and Environment-Friendly Equipment Test Station

– END OF TEST CERTIFICATE –

