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

TEST CERTIFICATE

Number **O-B-000925-24**

Customer	Kołton Spółka komandytowa ul. Sosnowa 2 34-480 Jabłonka POLAND
Product	Outdoor Air/Water Heat Pumps – monobloc
Type designation / Trade mark	**Airadapt 3-12** **Airadapt 4-16** **Airadapt 4-20**
Test methods	ČSN EN 14511-2:2019, ČSN EN 14511-3:2019, ČSN EN 14511-4:2019, ČSN EN 12102-1:2023, EHPA Testing regulation – Testing of Air/Water Heat Pumps, version 2.4a
Basis of certificate	Test reports: 39-16823/T of 2023-06-21 39-17801/H of 2024-06-18 Technical documents of KOŁTON SPÓŁKA KOMANDYTOWA
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.)	-
Function	**Reversible**		

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Results:

Model names			Kołton Airadapt 3-12	Kołton Airadapt 4-16	Kołton Airadapt 4-20
Temperature condition*			(Not Tested)	(Not tested)	(Tested)
A7/W35	Corrected heating capacity	[kW]	6.460	9.192	9.406
	Effective power input	[kW]	1.222	1.734	1.707
	Coefficient of performance	[–]	5.286	5.301	5.511
	Control settings	[–]	-	-	-
A7/W55	Corrected heating capacity	[kW]	6.038	9.062	9.539
	Effective power input	[kW]	1.895	2.705	2.668
	Coefficient of performance	[–]	3.187	3.350	3.576
	Control settings	[–]	-	-	-
Sound power level at condition A7/W55* (at 1100 rpm):					
L_{WA}	Outdoor unit	[dB(A)]	53.0 ± 1.5	54.0 ± 1.5	54.5 ± 1.5
Accuracy class	Outdoor unit			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, 2024-06-25

Ing. Mario Jankola
Heating Equipment and Construction Products Manager

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TEST CERTIFICATE

Number **O-B-000926-24**

Customer	Kołton Spółka komandytowa ul. Sosnowa 2 34-480 Jabłonka POLAND
Product	Outdoor Air/Water Heat Pumps – monobloc
Type designation / Trademark	**Airadapt 3-12** **Airadapt 4-16** **Airadapt 4-20**
Test methods	ČSN EN 14511-2:2019, ČSN EN 14511-3:2019, ČSN EN 14511-4:2019, ČSN EN 12102-1:2023, EHPA Testing regulation – Testing of Air/Water Heat Pumps, version 2.4a
Basis of certificate	Test reports: 39-16823/T of 2023-06-21 39-17801/H of 2024-06-18 Technical documents of KOŁTON SPÓŁKA KOMANDYTOWA
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 °C / +2 °C / -22 °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.)	-
Function	**Reversible**		

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Results:

Low temperature application

(Reference water temperature 35 °C)

Model names			Kołton Airadapt 3-12 (Not tested)	Kołton Airadapt 4-16 (Not tested)	Kołton Airadapt 4-20 (Tested)
Full load heating	$P_{designh}$ [kW]	A	8.98	10.08	13.85
		W	10.10	13.05	16.05
		C	9.49	11.65	14.42
Bivalent temperature	$T_{bivalent}$ [°C]	A	-10	-10	-7
		W	2	2	2
		C	-15	-15	-15
Seasonal coefficient of performance	SCOP [–]	A	4.58	4.64	4.66
		W	6.31	6.52	6.34 (Not tested)
		C	4.26	4.26	4.30 (Not tested)
Seasonal Space heating energy efficiency	η_s [%]	A	180.2	182.6	183.5
		W	249.4	257.6	250.7 (Not tested)
		C	167.3	167.4	169.0 (Not tested)

(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, 2024-06-25

Ing. Mario Jankola

Heating Equipment and Construction Products Manager

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TEST CERTIFICATE

Number **O-B-000927-24**

Customer	Kołton Spółka komandytowa ul. Sosnowa 2 34-480 Jabłonka POLAND
Product	Outdoor Air/Water Heat Pumps – monobloc
Type designation / Trademark	**Airadapt 3-12** **Airadapt 4-16** **Airadapt 4-20**
Test methods	ČSN EN 14511-2:2019, ČSN EN 14511-3:2019, ČSN EN 14511-4:2019, ČSN EN 12102-1:2023, EHPA Testing regulation – Testing of Air/Water Heat Pumps, version 2.4a
Basis of certificate	Test reports: 39-16823/T of 2023-06-21 39-17801/H of 2024-06-18 Technical documents of KOŁTON SPÓŁKA KOMANDYTOWA
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 °C / +2 °C / -22 °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.)	-
Function	**Reversible**		

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Results:

Medium temperature application

(Reference water temperature 55 °C)

Model names			Kołton Airadapt 3-12 (Not tested)	Kołton Airadapt 4-16 (Not tested)	Kołton Airadapt 4-20 (Tested)
Full load heating	$P_{designh}$ [kW]	A	8.15	10.02	12.30
		W	9.89	12.46	16.01
		C	9.54	11.41	14.20
Bivalent temperature	$T_{bivalent}$ [°C]	A	-10	-10	-10
		W	2	2	2
		C	-15	-15	-15
Seasonal coefficient of performance	SCOP [–]	A	3.83	3.83	3.93
		W	4.67	4.56	4.59 (Not tested)
		C	3.55	3.51	3.60 (Not tested)
Seasonal Space heating energy efficiency	η_s [%]	A	150.1	150.2	154.1
		W	184.0	179.2	180.8 (Not tested)
		C	138.9	137.3	140.8 (Not tested)

(*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, 2024-06-25

Ing. Mario Jankola
Heating Equipment and Construction Products Manager

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TEST CERTIFICATE

Number **O-B-01287-24**

Customer	Kołton Spółka komandytowa ul. Sosnowa 2 34-480 Jabłonka POLAND
Product	Outdoor Air/Water Heat pump - monobloc
Type designation / Trade mark	**AirAdapt 4-20**
Test methods	ČSN EN 14511-4:2023, ČSN EN 12102-1:2023
Basis of certificate	Test reports: 39-17801/T of 2024-07-26 39-17801/H of 2024-06-18 Technical documents of Kołton Spółka komandytowa
Temperature application	**MEDIUM TEMPERATURE** (Reference water temperature 55 °C)

Sound power level at temperature condition A7W55*:

Outdoor Air/Water Heat pump - monobloc	**AirAdapt 4-20** – outdoor unit –		
Sound power level	L_{WA}	54.5 ± 1.5	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).

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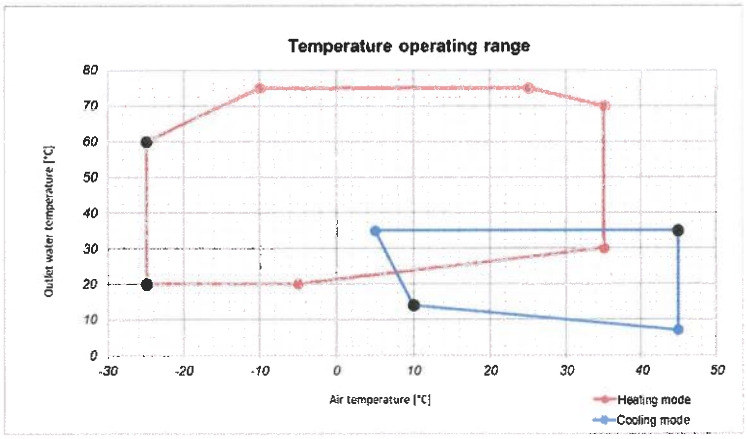
Temperature operating range:



Liquid flow rate in:

outdoor heating exchanger

Minimum	1.000	m^3/h
Maximum	3.200	m^3/h

indoor heating exchanger

Minimum	1.000	m^3/h
Maximum	3.200	m^3/h

Complies with
ČSN EN 14511-4:2023, articles: 4.2.1.2; 4.2.1.3

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, 2024-07-30

STROJÍRENSKÝ ZKUŠEBNÍ ÚSTAV, s.p. CZ 1

Ing. Mario Jankola
Heating Equipment and Construction Products Manager

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Strojírenský zkušební ústav, s.p., Brno, Česká republika
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TEST CERTIFICATE

Number **O-B-01398-24**

Customer	Kołton Spółka komandytowa ul. Sosnowa 2 34-480 Jabłonka POLAND
Product	Outdoor Air/Water Heat Pumps – monobloc
Type designation / Trade mark	**Kołton Airadapt 4-20**
Test methods	ČSN EN 14511-3:2019, ČSN EN 14825:2020, ČSN EN 12102-1:2023, EHPA Testing regulation – Testing of Air/Water Heat Pumps, version 2.4a
Basis of certificate	Test reports: 39-16823/T of 2023-06-21 39-17801/H of 2024-06-18 Technical documents of KOŁTON SPÓŁKA KOMANDYTOWA
Reference heating season	**„A" = average** (Reference design temperature $T_{designh}$ = -10 °C)

Results:

LOW TEMPERATURE (Reference water temperature 35 °C)		MEDIUM TEMPERATURE (Reference water temperature 55 °C)
13.85	**$P_{designh}$ [kW]** … Full load heating	**12.30**
4.66	**SCOP [–]** … Seasonal coefficient of performance	**3.93**

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	12.248	2.713	T_j = -7	10.356	2.485
T_j = +2	7.278	4.539	T_j = +2	6.368	3.889
T_j = +7	4.813	6.423	T_j = +7	4.599	4.940
T_j = +12	5.568	7.906	T_j = +12	5.407	6.109
T_j = TOL = -10	12.399	2.702	T_j = TOL = -10	12.303	2.174
T_j = $T_{bivalent}$ = -7	12.248	2.713	T_j = $T_{bivalent}$ = -10	12.303	2.174

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LOW TEMPERATURE (Reference water temperature 35 °C)				MEDIUM TEMPERATURE (Reference water temperature 55 °C)
Power consumption in modes other than „active mode“:				
17.6	Off mode	P_{OFF}	[W]	**17.6**
22.0	Thermostat off mode	P_{TO}	[W]	**21.7**
17.6	Standby mode	P_{SB}	[W]	**17.6**
0.0	Crankcase heater mode	P_{CK}	[W]	**0.0**
Annual electricity consumption for heating according to:				
6135	ČSN EN 14825:2020	Q_{HE}	[kWh]	**6471**
Seasonal Space heating energy efficiency				
183.5	ČSN EN 14825:2020	η_s	[%]	**154.1**
Liquid flow rate in outdoor heating exchanger:				
-	Source liquid	Min/Max	[m^3/h]	**–**
Liquid flow rate in indoor heating exchanger:				
1.000/3.200	Heating water	Min/Max	[m^3/h]	**1.000/3.200**

Sound power level at condition A7W55* (at 10 %):

Kołton Airadapt 4-20 – outdoor unit –	L_{WA}	54.5 ± 1.5	dB(A)	Accuracy class 2 (Engineering)

(*) Comment to abbreviated marking:
„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, 2024-09-12

STROJÍRENSKÝ ZKUŠEBNÍ ÚSTAV, s.p. CZ 1

Ing. Mario Jankola
Heating Equipment and Construction Products Manager

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TEST CERTIFICATE

Number **O-B-01399-24**

Customer	Kołton Spółka komandytowa ul. Sosnowa 2 34-480 Jabłonka POLAND
Product	Outdoor Air/Water Heat Pumps – monobloc
Type designation / Trade mark	**Kołton Airadapt 4-20**
Test methods	ČSN EN 14511-3:2019, ČSN EN 14825:2020, ČSN EN 12102-1:2023, EHPA Testing regulation – Testing of Air/Water Heat Pumps, version 2.4a
Basis of certificate	Test reports: 39-16823/T of 2023-06-21 39-17801/H of 2024-06-18 Technical documents of KOŁTON SPÓŁKA KOMANDYTOWA
Reference heating season	**„W" = warmer** (Reference design temperature $T_{designh}$ = +2 °C)

Results:

LOW TEMPERATURE (Reference water temperature 35 °C)			MEDIUM TEMPERATURE (Reference water temperature 55 °C)		
16.05	**$P_{designh}$ [kW]** … Full load heating				**16.01**
6.34 (a)	**SCOP** [–] … Seasonal coefficient of performance				**4.59** (a)
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	–	–	T_j = -7	–	–
T_j = +2	16.049	3.390	T_j = +2	16.009	2.622
T_j = +7 (a)	10.550	5.730	T_j = +7 (a)	10.420	3.960
T_j = +12 (a)	5.620	7.750	T_j = +12 (a)	5.540	5.780
T_j = TOL = +2	16.049	3.390	T_j = TOL = +2	16.009	2.622
T_j = $T_{bivalent}$ = +2	16.049	3.390	T_j = $T_{bivalent}$ = +2	16.009	2.622

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LOW TEMPERATURE (Reference water temperature 35 °C)				MEDIUM TEMPERATURE (Reference water temperature 55 °C)
Power consumption in modes other than „active mode“:				
17.6	Off mode	P_{OFF}	[W]	**17.6**
22.0	Thermostat off mode	P_{TO}	[W]	**21.7**
17.6	Standby mode	P_{SB}	[W]	**17.6**
0.0	Crankcase heater mode	P_{CK}	[W]	**0.0**
Annual electricity consumption for heating according to:				
3380.0 [a]	ČSN EN 14825:2020	Q_{HE}	[kWh]	**4655.0** [a]
Seasonal Space heating energy efficiency				
250.7 [a]	ČSN EN 14825:2020	η_s	[%]	**180.8** [a]
Liquid flow rate in outdoor heating exchanger:				
–	Source liquid	Min/Max	[m^3/h]	–
Liquid flow rate in indoor heating exchanger:				
1.000/3.200	Heating water	Min/Max	[m^3/h]	**1.000/3.200**

Sound power level at condition A7W55* (at 10 %):

Kołton Airadapt 4-20 – outdoor unit –	L_{WA}	54.5 ± 1.5	dB(A)	Accuracy class 2 (Engineering)

(*) Comment to abbreviated marking:
„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, 2024-09-12

Ing. Mario Jankola
Heating Equipment and Construction Products Manager

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Engineering Test Institute, Public Enterprise, Brno, Czech Republic

TEST CERTIFICATE

Number **O-B-01400-24**

Customer	Kołton Spółka komandytowa ul. Sosnowa 2 34-480 Jabłonka POLAND
Product	Outdoor Air/Water Heat Pumps – monobloc
Type designation / Trade mark	**Kołton Airadapt 4-20**
Test methods	ČSN EN 14511-3:2019, ČSN EN 14825:2020, ČSN EN 12102-1:2023, EHPA Testing regulation – Testing of Air/Water Heat Pumps, version 2.4a
Basis of certificate	Test reports: 39-16823/T of 2023-06-21 39-17801/H of 2024-06-18 Technical documents of KOŁTON SPÓŁKA KOMANDYTOWA
Reference heating season	**„C" = colder** (Reference design temperature $T_{designh}$ = -22 °C)

Results:

LOW TEMPERATURE (Reference water temperature 35 °C)			MEDIUM TEMPERATURE (Reference water temperature 55 °C)		
14.42	**$P_{designh}$ [kW]** … Full load heating				**14.20**
4.30 (a)	**SCOP [–]** … Seasonal coefficient of performance				**3.60** (a)
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 (a)	8.850	4.020	T_j = -7 (a)	8.850	3.080
T_j = +2 (a)	5.350	4.780	T_j = +2 (a)	5.450	4.320
T_j = +7	4.827	6.530	T_j = +7	4.657	5.209
T_j = +12 (a)	5.590	7.820	T_j = +12 (a)	5.540	7.060
T_j = TOL = -20 (a)	10.020	2.510	T_j = TOL = -20 (a)	9.850	1.810
T_j = $T_{bivalent}$ = -15	11.767	2.734	T_j = $T_{bivalent}$ = -15	11.582	2.208
T_j = -15	11.767	2.734	T_j = -15	11.582	2.208

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LOW TEMPERATURE (Reference water temperature 35 °C)				MEDIUM TEMPERATURE (Reference water temperature 55 °C)
Power consumption in modes other than „active mode“:				
17.6	Off mode	P_{OFF}	[W]	**17.6**
22.0	Thermostat off mode	P_{TO}	[W]	**21.7**
17.6	Standby mode	P_{SB}	[W]	**17.6**
0.0	Crankcase heater mode	P_{CK}	[W]	**0.0**
Annual electricity consumption for heating according to:				
8267.0 [a]	ČSN EN 14825:2020	Q_{HE}	[kWh]	**9734.0** [a]
Seasonal Space heating energy efficiency				
169.0 [a]	ČSN EN 14825:2020	η_s	[%]	**140.8** [a]
Liquid flow rate in outdoor heating exchanger:				
–	Source liquid	Min/Max	[m^3/h]	–
Liquid flow rate in indoor heating exchanger:				
1.000/3.200	Heating water	Min/Max	[m^3/h]	**1.000/3.200**

Sound power level at condition A7W55* (at 10 %):

Kolton Airadapt 4-20 – outdoor unit –	L_{WA}	54.5 ± 1.5	dB(A)	Accuracy class 2 (Engineering)

(*) Comment to abbreviated marking:
„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, 2024-09-12

STROJÍRENSKÝ ZKUŠEBNÍ ÚSTAV, s.p. CZ 1

Ing. Mario Jankola
Heating Equipment and Construction Products Manager

– END OF TEST CERTIFICATE –