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

TEST CERTIFICATE

Number **O-B-01037-23**

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 12102-1:2018, EHPA Testing regulation – Testing of Air/Water Heat Pumps, version 2.4a
Basis of certificate	Test reports: 39-16823/T of 2023-06-21 39-16823/H of 2023-06-21 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

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}	59.5 ± 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, 2023-06-30

Milan Holomek
Head of Heat and Environment-Friendly Equipment Test Station

– END OF TEST CERTIFICATE –

STROJÍRENSKÝ ZKUŠEBNÍ ÚSTAV, s.p. CZ 1

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