



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

TEST CERTIFICATE

Number **O-B-01038-23**

Customer **Kořton Spółka komandytowa**
ul. Sosnowa 2
34-480 Jablonka
POLAND

Product **Outdoor Air/Water Heat Pumps – monobloc**

Type designation / Trade mark **Kořton 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 **„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)

14.42			$P_{designh}$ [kW] ... Full load heating			14.20		
4.30 (a)			SCOP [-] ... Seasonal coefficient of performance			3.60 (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 [-]
$T_j = -7^{(a)}$	8.850	4.020	$T_j = -7^{(a)}$	8.850	3.080	$T_j = -7^{(a)}$	8.850	3.080
$T_j = +2^{(a)}$	5.350	4.780	$T_j = +2^{(a)}$	5.450	4.320	$T_j = +2^{(a)}$	5.450	4.320
$T_j = +7$	4.827	6.530	$T_j = +7$	4.657	5.209	$T_j = +7$	4.657	5.209
$T_j = +12^{(a)}$	5.590	7.820	$T_j = +12^{(a)}$	5.540	7.060	$T_j = +12^{(a)}$	5.540	7.060
$T_j = TOL = -20^{(a)}$	10.020	2.510	$T_j = TOL = -20^{(a)}$	9.850	1.810	$T_j = TOL = -20^{(a)}$	9.850	1.810
$T_j = T_{bivalent} = -15$	11.767	2.734	$T_j = T_{bivalent} = -15$	11.582	2.208	$T_j = T_{bivalent} = -15$	11.582	2.208
$T_j = -15$	11.767	2.734	$T_j = -15$	11.582	2.208	$T_j = -15$	11.582	2.208

O-B-01038-23, page 1 (2)

Strojirenský 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

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 %):

Kotlon 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 –

