



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

TEST CERTIFICATE

Number **O-B-01496-22 rev.1**

Customer **KOŁTON SPÓŁKA KOMANDYTOWA**
ul. Sosnowa 2
34-480 Jablonka
POLSKA

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

Type designation / Trade mark **Airkompakt p0916**

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:
39-16511/T of 2022-09-16
39-16511/H of 2022-09-16
Technical documents of KOŁTON SPÓŁKA KOMANDYTOWA**

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)

6.20	$P_{designh}$ [kW] ... Full load heating				6.28
4.00	SCOP [-] ... Seasonal coefficient of performance				3.25
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 [-]
$T_j = -7$	5.482	2.902	$T_j = -7$	5.558	2.285
$T_j = +2$	7.066	3.878	$T_j = +2$	6.865	3.125
$T_j = +7$	9.209	5.130	$T_j = +7$	8.854	4.189
$T_j = +12$	10.611	6.025	$T_j = +12$	10.398	5.230
$T_j = TOL = -10$	5.260	2.765	$T_j = TOL = -10$	5.127	2.003
$T_j = T_{bivalent} = -7$	5.482	2.902	$T_j = T_{bivalent} = -7$	5.558	2.285



LOW TEMPERATURE

(Reference water temperature 35 °C)



MEDIUM TEMPERATURE

(Reference water temperature 55 °C)

Power consumption in modes other than „active mode“:

14.8	Off mode	P _{OFF}	[W]	14.8
14.7	Thermostat off mode	P _{TO}	[W]	14.7
14.8	Standby mode	P _{SB}	[W]	14.8
0.0	Crankcase heater mode	P _{CK}	[W]	0.0

Annual electricity consumption for heating according to:

3197	ČSN EN 14825:2020	Q _{HE}	[kWh]	3995
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Seasonal Space heating energy efficiency

157.2	ČSN EN 14825:2020	η _s	[%]	127.0
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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:

0.9142/1.5814	Heating water	Min/Max	[m ³ /h]	0.9142/1.5814
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Sound power level at condition A7W55* :

Airkompakt p0916

LWA	62.9 ± 1.5	dB(A)
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Accuracy class 2 (Engineering)

(*) Comment to abbreviated marking:

„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	Fixed	Heating water volume flow rate (indoor heat exchanger)	Fixed
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, 2022-09-30


Milan Holomek

Head of Heat and Environment-Friendly Equipment Test Station

- END OF TEST CERTIFICATE -

