



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

TEST CERTIFICATE

Number **O-B-00583-24**

Customer Kospel spółka z o.o.
ul. Olchowa 1
75-136 Koszalin
POLAND

Product Outdoor Air/Water Heat pump – monobloc

Type designation / Trademark **HPMO2-8**

Test methods ČSN EN 14511-2:2023, ČSN EN 14511-3:2023,
ČSN EN 14825:2023; ČSN EN 12102-1:2023

Basis of certificate Test reports:
39-17512/T of 2024-03-28
39-17512/H of 2024-03-28
Technical documents of Kospel spółka z o.o.

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)

5.54	$P_{designh}$ [kW] ... Full load heating				4.71
4.79	SCOP [-] ... Seasonal coefficient of performance				3.21
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 [-]
$T_j = -7$	4.904	3.302	$T_j = -7$	4.169	1.971
$T_j = +2$	2.856	4.458	$T_j = +2$	3.181	3.388
$T_j = +7$	2.565	6.432	$T_j = +7$	2.654	3.911
$T_j = +12$	2.875	8.328	$T_j = +12$	2.376	4.700
$T_j = TOL = -10$	5.152	2.861	$T_j = TOL = -10$	3.614	1.477
$T_j = T_{bivalent} = -7$	4.904	3.302	$T_j = T_{bivalent} = -7$	4.169	1.971

LOW TEMPERATURE

(Reference water temperature 35 °C)

**MEDIUM TEMPERATURE**

(Reference water temperature 55 °C)

Power consumption in modes other than „active mode“:

14.0	Off mode	P _{OFF}	[W]	14.0
14.0	Thermostat off mode	P _{TO}	[W]	14.0
14.0	Standby mode	P _{SB}	[W]	14.0
0	Crankcase heater mode	P _{CK}	[W]	0

Annual electricity consumption for heating according to:

2393	ČSN EN 14825:2023	Q _{HE}	[kWh]	3029
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Seasonal Space heating energy efficiency

188.4	ČSN EN 14825:2023	η _s	[%]	125.6
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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:

0.4971/0.8983	Heating water	Min/Max	[m³/h]	0.5002/0.5043
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Sound power level at condition A7W55*:

L _{WA}	49.4 ± 1.5	dB(A)
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(*) 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)	Variable
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, 2024-04-04


Ing. Mario Jankola

Heating Equipment and Construction Products Manager

– END OF TEST CERTIFICATE –

