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Summary of	Oertli OENOVIPAC-C FIRST R32 4 & OENOVIPAC-C SLIM R32 4	Reg. No.	21HK0027/00
Certificate Holder			
Name	BDR Thermea FR (OERTLI)		
Address	57 rue de la Gare	Zip	67580
City	Mertzwiller	Country	France
Certification Body	Kiwa Nederland B.V.		
Subtype title	Oertli OENOVIPAC-C FIRST R32 4 & OENOVIPAC-C SLIM R32 4		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.2 kg		
Certification Date	03.12.2021		
Testing basis	European KEYMARK Scheme for Heat Pumps (v9)		

# Model: AWHPR 4 MR + MHC/EM 4-8 R32

## Configure model

Model name	AWHPR 4 MR + MHC/EM 4-8 R32
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C

## General Data

Power supply	1x230V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	4.60 kW	4.40 kW
El input	0.88 kW	1.49 kW
COP	5.20	2.95

### EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## Cooling

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<b>EN 14511-2</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
El input	1.25 kW	1.12 kW
Cooling capacity	4.50	6.00
EER	3.60	5.35

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<b>EN 14825</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	4.50 kW	6.00 kW
SEER	4.69	8.13
P <sub>dc</sub> T <sub>j</sub> = 35°C	4.50 kW	6.00 kW
EER T <sub>j</sub> = 35°C	3.60	5.35
P <sub>dc</sub> T <sub>j</sub> = 30°C	3.32 kW	4.50 kW
EER T <sub>j</sub> = 30°C	3.97	7.09
P <sub>dc</sub> T <sub>j</sub> = 25°C	2.30 kW	2.80 kW
EER T <sub>j</sub> = 25°C	5.23	9.20
P <sub>dc</sub> T <sub>j</sub> = 20°C	1.85 kW	2.85 kW
EER T <sub>j</sub> = 20°C	6.40	12.23
P <sub>off</sub>	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	576 kWh	443 kWh

## Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	177 %	135 %
Prated	5.00 kW	5.00 kW
SCOP	4.50	3.44
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.40 kW	4.50 kW
COP Tj = -7°C	3.18	2.15
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	2.70 kW	2.70 kW
COP Tj = +2°C	4.44	3.39
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	1.75 kW	1.74 kW
COP Tj = +7°C	5.37	4.44
Cdh Tj = +7 °C	0.960	0.960

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Pdh Tj = 12°C	2.70 kW	2.10 kW
COP Tj = 12°C	8.78	7.29
Cdh Tj = +12 °C	0.950	0.950
Pdh Tj = Tbiv	5.00 kW	4.50 kW
COP Tj = Tbiv	3.00	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.00	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.70 kW
Annual energy consumption Qhe	2297 kWh	3000 kWh

# Model: AWHPR 4 MR + MHC/EM 4-8 R32 + HP SL180 EVO

Configure model	
Model name	AWHPR 4 MR + MHC/EM 4-8 R32 + HP SL180 EVO
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C

General Data	
Power supply	1x230V 50Hz

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.60 kW	4.40 kW
El input	0.88 kW	1.49 kW
COP	5.20	2.95

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## Cooling

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<b>EN 14511-2</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
El input	1.25 kW	1.12 kW
Cooling capacity	4.50	6.00
EER	3.60	5.35



<b>EN 14825</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	4.50 kW	6.00 kW
SEER	4.69	8.13
P <sub>dc</sub> T <sub>j</sub> = 35°C	4.50 kW	6.00 kW
EER T <sub>j</sub> = 35°C	3.60	5.35
P <sub>dc</sub> T <sub>j</sub> = 30°C	3.32 kW	4.50 kW
EER T <sub>j</sub> = 30°C	3.97	7.09
P <sub>dc</sub> T <sub>j</sub> = 25°C	2.30 kW	2.80 kW
EER T <sub>j</sub> = 25°C	5.23	9.20
P <sub>dc</sub> T <sub>j</sub> = 20°C	1.85 kW	2.85 kW
EER T <sub>j</sub> = 20°C	6.40	12.23
P <sub>off</sub>	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	576 kWh	443 kWh

## Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	177 %	135 %
Prated	5.00 kW	5.00 kW
SCOP	4.50	3.44
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.40 kW	4.50 kW
COP Tj = -7°C	3.18	2.15
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	2.70 kW	2.70 kW
COP Tj = +2°C	4.44	3.39
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	1.75 kW	1.74 kW
COP Tj = +7°C	5.37	4.44
Cdh Tj = +7 °C	0.960	0.960

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Pdh Tj = 12°C	2.70 kW	2.10 kW
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Pdh Tj = Tbiv	5.00 kW	4.50 kW
COP Tj = Tbiv	3.00	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.00	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.70 kW
Annual energy consumption Qhe	2297 kWh	3000 kWh

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	M
Efficiency $\eta_{DHW}$	118 %
COP	2.77
Heating up time	1:35 h:min
Standby power input	24.1 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	250 l

# Model: AWHPR 4 MR + MHC/EM 4-8 R32 + HP SL180 EVO

Configure model	
Model name	AWHPR 4 MR + MHC/EM 4-8 R32 + HP SL180 EVO
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C

General Data	
Power supply	1x230V 50Hz

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.60 kW	4.40 kW
El input	0.88 kW	1.49 kW
COP	5.20	2.95

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## Cooling

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<b>EN 14511-2</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
El input	1.25 kW	1.12 kW
Cooling capacity	4.50	6.00
EER	3.60	5.35

<b>EN 14825</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	4.50 kW	6.00 kW
SEER	4.69	8.13
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EER T <sub>j</sub> = 35°C	3.60	5.35
P <sub>dc</sub> T <sub>j</sub> = 30°C	3.32 kW	4.50 kW
EER T <sub>j</sub> = 30°C	3.97	7.09
P <sub>dc</sub> T <sub>j</sub> = 25°C	2.30 kW	2.80 kW
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P <sub>dc</sub> T <sub>j</sub> = 20°C	1.85 kW	2.85 kW
EER T <sub>j</sub> = 20°C	6.40	12.23
P <sub>off</sub>	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	576 kWh	443 kWh

## Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

### EN 14825

	Low temperature	Medium temperature
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COP Tj = +2°C	4.44	3.39
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Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.70 kW
Annual energy consumption Qhe	2297 kWh	3000 kWh

## Domestic Hot Water (DHW)

### Average Climate

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<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	133 %
COP	3.19
Heating up time	1:35 h:min
Standby power input	26.6 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	250 l

## Model: AWHPR 4 MR + MHC/H 4-8 R32

Configure model	
Model name	AWHPR 4 MR + MHC/H 4-8 R32
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C

General Data	
Power supply	1x230V 50Hz

### Heating

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Annual energy consumption Q <sub>ce</sub>	576 kWh	443 kWh

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Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.70 kW
Annual energy consumption Qhe	2297 kWh	3000 kWh