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Summary of	DE DIETRICH Alezio S R32 4 MR & Alezio S Compact R32 4 MR		Reg. No.	21HK0021/00
Certificate Holder				
Name	BDR Thermea FR (DE DIETRICH)			
Address	57 rue de la Gare		Zip	67580
City	Mertzwiller		Country	France
Certification Body	Kiwa Nederland B.V.			
Subtype title	DE DIETRICH Alezio S R32 4 MR & Alezio S Compact R32 4 MR			
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 + MIV-S 4-8/EM R32

Configure model

Model name	AWHPR 4 MR + MIV-S 4-8/EM 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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EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	1.25 kW	1.12 kW
Cooling capacity	4.50	6.00
EER	3.60	5.35

EN 14825		
	+7°C/+12°C	+18°C/+23°C
P _{designc}	4.50 kW	6.00 kW
SEER	4.69	8.13
P _{dc} T _j = 35°C	4.50 kW	6.00 kW
EER T _j = 35°C	3.60	5.35
P _{dc} T _j = 30°C	3.32 kW	4.50 kW
EER T _j = 30°C	3.97	7.09
P _{dc} T _j = 25°C	2.30 kW	2.80 kW
EER T _j = 25°C	5.23	9.20
P _{dc} T _j = 20°C	1.85 kW	2.85 kW
EER T _j = 20°C	6.40	12.23
P _{off}	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	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
η_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 + MIV-S 4-8/EM R32 + HP SL180 EVO

Configure model	
Model name	AWHPR 4 MR + MIV-S 4-8/EM 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

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	1.25 kW	1.12 kW
Cooling capacity	4.50	6.00
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EN 14825		
	+7°C/+12°C	+18°C/+23°C
P _{designc}	4.50 kW	6.00 kW
SEER	4.69	8.13
P _{dc} T _j = 35°C	4.50 kW	6.00 kW
EER T _j = 35°C	3.60	5.35
P _{dc} T _j = 30°C	3.32 kW	4.50 kW
EER T _j = 30°C	3.97	7.09
P _{dc} T _j = 25°C	2.30 kW	2.80 kW
EER T _j = 25°C	5.23	9.20
P _{dc} T _j = 20°C	1.85 kW	2.85 kW
EER T _j = 20°C	6.40	12.23
P _{off}	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
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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
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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

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EN 16147	
Declared load profile	M
Efficiency η_{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 + MIV-S 4-8/EM R32 + HP SL180 EVO

Configure model	
Model name	AWHPR 4 MR + MIV-S 4-8/EM 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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	+7°C/+12°C	+18°C/+23°C
El input	1.25 kW	1.12 kW
Cooling capacity	4.50	6.00
EER	3.60	5.35

EN 14825		
	+7°C/+12°C	+18°C/+23°C
P _{designc}	4.50 kW	6.00 kW
SEER	4.69	8.13
P _{dc} T _j = 35°C	4.50 kW	6.00 kW
EER T _j = 35°C	3.60	5.35
P _{dc} T _j = 30°C	3.32 kW	4.50 kW
EER T _j = 30°C	3.97	7.09
P _{dc} T _j = 25°C	2.30 kW	2.80 kW
EER T _j = 25°C	5.23	9.20
P _{dc} T _j = 20°C	1.85 kW	2.85 kW
EER T _j = 20°C	6.40	12.23
P _{off}	12 W	12 W
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Annual energy consumption Q _{ce}	576 kWh	443 kWh

Average Climate

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

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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
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WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	12 W	12 W
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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

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EN 16147	
Declared load profile	L
Efficiency η_{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 + MIV-S 4-8/H R32

Configure model	
Model name	AWHPR 4 MR + MIV-S 4-8/H R32
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Supplementary Heater: PSUP	0.00 kW	0.70 kW
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