

This information was generated by the HP KEYMARK database on 25 Feb 2023

	DE DIETRICH Alezio S V200 R32 4.5 MR	Reg. No.	21HK0009/00
Certificate Holder			
	BDR Thermea FR (DE DIETRICH)		
	57 rue de la Gare		67580
	Mertzwiller		France
Certification Body	Kiwa Nederland B.V.		
Subtype title	DE DIETRICH Alezio S V200 R32 4.5 MR		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.2 kg		
Certification Date	12.11.2021		
Testing basis	European KEYMARK Scheme for Heat Pumps (v9)		

Model: AWHPR 4 MR + MIV-S/E 4-8 V200 R32

Configure model	
Model name	AWHPR 4 MR + MIV-S/E 4-8 V200 R32
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	4.10 kW
El input	0.88 kW	1.55 kW
COP	5.20	2.65

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	1.33 kW	1.16 kW
Cooling capacity	4.50	6.00
EER	3.39	5.18

EN 14825

This information was generated by the HP KEYMARK database on 25 Feb 2023

	+7°C/+12°C	+18°C/+23°C
P _{designc}	4.50 kW	6.00 kW
SEER	4.61	7.99
P _{dc Tj = 35°C}	4.50 kW	6.00 kW
EER Tj = 35°C	3.39	5.18
P _{dc Tj = 30°C}	3.32 kW	4.50 kW
EER Tj = 30°C	3.97	7.09
C _{dc Tj = 30 °C}	0.990	0.980
P _{dc Tj = 25°C}	2.30 kW	2.80 kW
EER Tj = 25°C	5.23	9.20
C _{dc Tj = 25 °C}	0.980	0.950
P _{dc Tj = 20°C}	1.85 kW	2.85 kW
EER Tj = 20°C	6.40	12.23
C _{dc Tj = 20 °C}	0.950	0.940
P _{off}	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	586 kWh	450 kWh

Average Climate

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	176 %	134 %
Prated	5.00 kW	5.00 kW
SCOP	4.48	3.43
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	0.990	0.990
Pdh Tj = +7°C	1.75 kW	1.74 kW
COP Tj = +7°C	5.37	4.44
Cdh Tj = +7 °C	0.970	0.970

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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	0.960	0.960
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	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.70 kW
Annual energy consumption Qhe	2305 kWh	3009 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	133 %
COP	3.17
Heating up time	1:37 h:min
Standby power input	27.9 W
Reference hot water temperature	53.8 °C
Mixed water at 40°C	255 l

Model: AWHPR 4 MR + MIV-S/H 4-8 V200 R32

Configure model	
Model name	AWHPR 4 MR + MIV-S/H 4-8 V200 R32
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	n/a

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.60 kW	4.10 kW
El input	0.88 kW	1.55 kW
COP	5.20	2.65

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 25 Feb 2023

EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	1.33 kW	1.16 kW
Cooling capacity	4.50	6.00
EER	3.39	5.18

EN 14825

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P _{designc}	4.50 kW	6.00 kW
SEER	4.61	7.99
P _{dc Tj = 35°C}	4.50 kW	6.00 kW
EER Tj = 35°C	3.39	5.18
P _{dc Tj = 30°C}	3.32 kW	4.50 kW
EER Tj = 30°C	3.97	7.09
C _{dc Tj = 30 °C}	0.990	0.980
P _{dc Tj = 25°C}	2.30 kW	2.80 kW
EER Tj = 25°C	5.23	9.20
C _{dc Tj = 25 °C}	0.980	0.950
P _{dc Tj = 20°C}	1.85 kW	2.85 kW
EER Tj = 20°C	6.40	12.23
C _{dc Tj = 20 °C}	0.950	0.940
P _{off}	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	586 kWh	450 kWh

Average Climate

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	176 %	134 %
Prated	5.00 kW	5.00 kW
SCOP	4.48	3.43
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	0.990	0.990
Pdh Tj = +7°C	1.75 kW	1.74 kW
COP Tj = +7°C	5.37	4.44
Cdh Tj = +7 °C	0.970	0.970

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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	0.960	0.960
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	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.70 kW
Annual energy consumption Qhe	2305 kWh	3009 kWh

Domestic Hot Water (DHW)

Average Climate

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Declared load profile	L
Efficiency η_{DHW}	133 %
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Heating up time	1:37 h:min
Standby power input	27.9 W
Reference hot water temperature	53.8 °C
Mixed water at 40°C	255 l

Model: AWHPR 4 MR + MIV-S/E 4-8 V200 R32

Configure model	
Model name	AWHPR 4 MR + MIV-S/E 4-8 V200 R32
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	n/a

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.60 kW	4.10 kW
El input	0.88 kW	1.55 kW
COP	5.20	2.65

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	1.33 kW	1.16 kW
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EER	3.39	5.18

EN 14825

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	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.50 kW	6.00 kW
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Pdc Tj = 35°C	4.50 kW	6.00 kW
EER Tj = 35°C	3.39	5.18
Pdc Tj = 30°C	3.32 kW	4.50 kW
EER Tj = 30°C	3.97	7.09
Cdc Tj = 30 °C	0.990	0.980
Pdc Tj = 25°C	2.30 kW	2.80 kW
EER Tj = 25°C	5.23	9.20
Cdc Tj = 25 °C	0.980	0.950
Pdc Tj = 20°C	1.85 kW	2.85 kW
EER Tj = 20°C	6.40	12.23
Cdc Tj = 20 °C	0.950	0.940
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Qce	586 kWh	450 kWh

Average Climate

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Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.70 kW
Annual energy consumption Qhe	2305 kWh	3009 kWh

Domestic Hot Water (DHW)

Average Climate

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EN 16147	
Declared load profile	M
Efficiency η_{DHW}	127 %
COP	2.98
Heating up time	1:39 h:min
Standby power input	20.9 W
Reference hot water temperature	53.8 °C
Mixed water at 40°C	260 l

Model: AWHPR 4 MR + MIV-S/H 4-8 V200 R32

Configure model	
Model name	AWHPR 4 MR + MIV-S/H 4-8 V200 R32
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EER Tj = 30°C	3.97	7.09
Cdc Tj = 30 °C	0.990	0.980
Pdc Tj = 25°C	2.30 kW	2.80 kW
EER Tj = 25°C	5.23	9.20
Cdc Tj = 25 °C	0.980	0.950
Pdc Tj = 20°C	1.85 kW	2.85 kW
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.00	1.83
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