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Summary of	DE DIETRICH STRATEO 4.5 MR/E R32	Reg. No.	21HK0001/00
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 STRATEO 4.5 MR/E R32		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.2 kg		
Certification Date	07.04.2021		
Testing basis	European KEYMARK Scheme for Heat Pumps (v8)		

Model: AWHPR 4 MR + MIC-1C V190 R32

Configure model	
Model name	AWHPR 4 MR + MIC-1C V190 R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
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

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

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	+7°C/+12°C	+18°C/+23°C
P _{designc}	4.50 kW	6.00 kW
SEER	4.64	8.02
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
C _{dc}		
P _{dc} T _j = 25°C	2.30 kW	2.80 kW
EER T _j = 25°C	5.23	9.20
C _{dc}		
P _{dc} T _j = 20°C	1.85 kW	2.85 kW
EER T _j = 20°C	6.40	12.23
C _{dc}		
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}	582 kWh	449 kWh

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	32 dB(A)	32 dB(A)
Sound power level outdoor	58 dB(A)	58 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	0.99	0.99
Pdh Tj = +2°C	2.70 kW	2.70 kW
COP Tj = +2°C	4.44	3.39
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	1.75 kW	1.74 kW
COP Tj = +7°C	5.37	4.44
Cdh Tj = +7 °C	0.96	0.96

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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	0.95	0.95
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	0.99	0.99
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 kW	0.7 kW
Annual energy consumption Qhe	2305 kWh	3009 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η_s	234 %	163 %

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Prated	5.00 kW	5.00 kW
SCOP	5.94	4.16
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.00 kW	5.00 kW
COP Tj = +2°C	3.51	2.42
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.30 kW	3.30 kW
COP Tj = +7°C	5.65	3.67
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	2.10 kW	1.90 kW
COP Tj = 12°C	7.94	5.67
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	5.00 kW	5.00 kW
COP Tj = Tbiv	3.51	2.42
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	2.42
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W

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PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Q _{he}	1125 kWh	1607 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	32 dB(A)	32 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	139 %
COP	3.30
Heating up time	1:35 h:min
Standby power input	31.8 W
Reference hot water temperature	53.3 °C
Mixed water at 40°C	279 l

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	169 %
COP	4.00
Heating up time	1:35 h:min
Standby power input	28.9 W
Reference hot water temperature	53.3 °C
Mixed water at 40°C	279 l

Model: AWHPR 4 MR + MIC-2C V190 R32

Configure model	
Model name	AWHPR 4 MR + MIC-2C V190 R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
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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	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	1.25 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	4.64	8.02
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}	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	582 kWh	449 kWh

Average Climate

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	Low temperature	Medium temperature
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EN 14825

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Pdh Tj = +2°C	2.70 kW	2.70 kW
COP Tj = +2°C	4.44	3.39
Cdh Tj = +2 °C	0.98	0.98
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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	0.99	0.99
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 kW	0.7 kW
Annual energy consumption Qhe	2305 kWh	3009 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η_s	234 %	163 %

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Prated	5.00 kW	5.00 kW
SCOP	5.94	4.16
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.00 kW	5.00 kW
COP Tj = +2°C	3.51	2.42
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.30 kW	3.30 kW
COP Tj = +7°C	5.65	3.67
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	2.10 kW	1.90 kW
COP Tj = 12°C	7.94	5.67
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	5.00 kW	5.00 kW
COP Tj = Tbiv	3.51	2.42
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	2.42
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W

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PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Q _{he}	1125 kWh	1607 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	32 dB(A)	32 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	139 %
COP	3.30
Heating up time	1:35 h:min
Standby power input	31.8 W
Reference hot water temperature	53.3 °C
Mixed water at 40°C	279 l

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	169 %
COP	4.00
Heating up time	1:35 h:min
Standby power input	28.9 W
Reference hot water temperature	53.3 °C
Mixed water at 40°C	279 l

Model: AWHPR 4 MR + MIC-1C V190 R32

Configure model	
Model name	AWHPR 4 MR + MIC-1C V190 R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
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	1.25 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	4.64	8.02
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}	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	582 kWh	449 kWh

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	32 dB(A)	32 dB(A)
Sound power level outdoor	58 dB(A)	58 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	0.99	0.99
Pdh Tj = +2°C	2.70 kW	2.70 kW
COP Tj = +2°C	4.44	3.39
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	1.75 kW	1.74 kW
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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	0.99	0.99
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 kW	0.7 kW
Annual energy consumption Qhe	2305 kWh	3009 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η_s	234 %	163 %

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Prated	5.00 kW	5.00 kW
SCOP	5.94	4.16
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.00 kW	5.00 kW
COP Tj = +2°C	3.51	2.42
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.30 kW	3.30 kW
COP Tj = +7°C	5.65	3.67
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	2.10 kW	1.90 kW
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Pdh Tj = Tbiv	5.00 kW	5.00 kW
COP Tj = Tbiv	3.51	2.42
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	2.42
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	60 °C	60 °C
Poff	15 W	15 W
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PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Q _{he}	1125 kWh	1607 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	M
Efficiency η_{DHW}	131 %
COP	3.00
Heating up time	1:35 h:min
Standby power input	29.9 W
Reference hot water temperature	53.3 °C
Mixed water at 40°C	279 l

Warmer Climate

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Model: AWHPR 4 MR + MIC-2C V190 R32

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Units	Indoor + Outdoor
Climate Zone	Warmer Climate
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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	Low temperature	Medium temperature
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El input	0.88 kW	1.55 kW
COP	5.20	2.65

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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		
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El input	1.25 kW	1.12 kW
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EN 14825		
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Warmer Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	169 %
COP	4.00
Heating up time	1:35 h:min
Standby power input	28.9 W
Reference hot water temperature	53.3 °C
Mixed water at 40°C	279 l