

Page 1 of 9

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Summary of	STRATEO 4.5 MR/E R32	Reg. No.	21HK0005/00	
Certificate Holder				
Name	De Dietrich Thermique Iberia	De Dietrich Thermique Iberia		
Address	Salvador Espriu, 11	Zip	08908	
City	L'Hospitalet de Llobregat	Country	Spain	
Certification Body	Kiwa Nederland B.V.	Kiwa Nederland B.V.		
Subtype title	STRATEO 4.5 MR/E R32	STRATEO 4.5 MR/E R32		
Heat Pump Type	Outdoor Air/Water	Outdoor Air/Water		
Refrigerant	R32	R32		
Mass of Refrigerant	1.2 kg	1.2 kg		
Certification Date	21.05.2021	21.05.2021		
Testing basis	European KEYMARK Scheme for	European KEYMARK Scheme for Heat Pumps (v9)		



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		
СОР	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





 $$\operatorname{\textit{Page}}\ 3$$ of 9 This information was generated by the HP KEYMARK database on 22 Jun 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	
EER	3.60	5.35	

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.50 kW	6.00 kW
SEER	4.64	8.02
Pdc Tj = 35°C	4.50 kW	6.00 kW
EER Tj = 35°C	3.60	5.35
Pdc Tj = 30°C	3.32 kW	4.50 kW
EER Tj = 30°C	3.97	7.09
Cdc		
Pdc Tj = 25°C	2.30 kW	2.80 kW
EER Tj = 25°C	5.23	9.20
Cdc		
Pdc Tj = 20°C	1.85 kW	2.85 kW
EER Tj = 20°C	6.40	12.23
Cdc		
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Qce	582 kWh	449 kWh

Warmer Climate



 $$\operatorname{\textit{Page}}\xspace\:5\:\text{of}\:9\:$ This information was generated by the HP KEYMARK database on 22 Jun 2022

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}	234 %	163 %	
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	

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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
РТО	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 kW
Annual energy consumption Qhe	1125 kWh	1607 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
$COPTj = +7^{\circ}C$	5.37	4.44
Cdh Tj = +7 °C	0.96	0.96
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
		1





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
РТО	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

Domestic Hot Water (DHW)

Warmer Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	169 %	
СОР	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	



Average Climate

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EN 16147		
Declared load profile	L	
Efficiency ηDHW	139 %	
СОР	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	