

Subtype Chappée ERIA S PLUS DUO R32 8-10

Certificate Holder	BDR Thermea FR (CHAPPEE)
Address	57 rue de la Gare
ZIP	67580
City	Mertzwiller
Country	FR
Certification Body	Kiwa Nederland B.V.
Subtype title	Chappée ERIA S PLUS DUO R32 8-10
Registration number	007-DN0133
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.65 kg
Certification Date	11.11.2022
Testing basis	European KEYMARK Scheme for Heat Pumps (v10)

Model ERIA S PLUS DUO R32 8 MR/EM

Model name	ERIA S PLUS DUO R32 8 MR/EM
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	128 %
COP	3.08
Heating up time	1:21 h:min
Standby power input	27.6 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	239 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	8.30 kW	7.50 kW
El input	1.60 kW	2.36 kW
COP	5.20	3.18

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	7.33 kW	8.47 kW
Cooling capacity	2.17	1.66
EER	3.38	5.11

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)

Sound power level outdoor	54 dB(A)	54 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
η_s	205 %	132 %
Prated	8.12 kW	6.60 kW
SCOP	5.21	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.19 kW	5.84 kW
COP Tj = -7°C	3.35	2.16
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.65 kW	3.76 kW
COP Tj = +2°C	5.09	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.90 kW	2.43 kW
COP Tj = +7°C	6.82	4.34
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.63 kW	1.40 kW
COP Tj = 12°C	8.35	5.33
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.19 kW	5.84 kW
COP Tj = Tbiv	3.35	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.45 kW	4.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	14 W	14 W
PTO	24 W	24 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.68 kW	1.69 kW
Annual energy consumption Qhe	3219 kWh	4053 kWh

EN 14825 Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.33 kW	8.47 kW
SEER	4.85	8.07
Pdc Tj = 35°C	7.33 kW	8.47 kW
EER Tj = 35°C	3.38	5.11
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	5.56 kW	6.68 kW

EER Tj = 30°C	4.53	7.14
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	3.63 kW	4.21 kW
EER Tj = 25°C	5.37	8.53
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	1.56 kW	1.70 kW
EER Tj = 20°C	5.56	11.68
Cdc Tj = 20 °C	0.900	0.900
Poff	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Qce	906 kWh	630 kWh

Model ERIA S PLUS DUO R32 10 MR/EM

Model name	ERIA S PLUS DUO R32 10 MR/EM
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	128 %
COP	3.08
Heating up time	1:21 h:min
Standby power input	27.6 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	239 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.00 kW	9.50 kW
El input	2.00 kW	3.06 kW
COP	5.00	3.10

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	8.70 kW	10.24 kW
Cooling capacity	2.69	2.17
EER	3.23	4.71

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)

Sound power level outdoor	54 dB(A)	54 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
η_s	205 %	137 %
Prated	9.17 kW	7.67 kW
SCOP	5.20	3.49
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.11 kW	6.78 kW
COP Tj = -7°C	3.23	2.24
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.95 kW	4.29 kW
COP Tj = +2°C	5.01	3.42
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.32 kW	2.77 kW
COP Tj = +7°C	7.08	4.52
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.65 kW	1.58 kW
COP Tj = 12°C	8.58	5.68
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.11 kW	6.78 kW
COP Tj = Tbiv	3.23	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.40 kW	5.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.96	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	14 W	14 W
PTO	24 W	24 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.76 kW	2.28 kW
Annual energy consumption Qhe	3646 kWh	4538 kWh

EN 14825 Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	8.70 kW	10.24 kW
SEER	4.94	7.78
Pdc Tj = 35°C	8.70 kW	10.24 kW
EER Tj = 35°C	3.23	4.71
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	6.46 kW	7.98 kW

EER Tj = 30°C	4.38	6.58
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	3.90 kW	4.54 kW
EER Tj = 25°C	5.51	8.27
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	1.90 kW	2.13 kW
EER Tj = 20°C	5.96	11.65
Cdc Tj = 20 °C	0.900	0.900
Poff	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Qce	1058 kWh	790 kWh

Model ERIA S PLUS DUO R32 8 MR/H

Model name	ERIA S PLUS DUO R32 8 MR/H
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

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Declared load profile	L
Efficiency η_{DHW}	128 %
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Heating up time	1:21 h:min
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Reference hot water temperature	53.0 °C
Mixed water at 40°C	239 l

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Shutting off the heat transfer medium flow	passed
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	Low temperature	Medium temperature
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El input	1.60 kW	2.36 kW
COP	5.20	3.18

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El input	7.33 kW	8.47 kW
Cooling capacity	2.17	1.66
EER	3.38	5.11

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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.68 kW	1.69 kW
Annual energy consumption Qhe	3219 kWh	4053 kWh

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Pdh Tj = +7°C	3.32 kW	2.77 kW
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Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.65 kW	1.58 kW
COP Tj = 12°C	8.58	5.68
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Pdc Tj = 25°C	3.90 kW	4.54 kW
EER Tj = 25°C	5.51	8.27
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	1.90 kW	2.13 kW
EER Tj = 20°C	5.96	11.65
Cdc Tj = 20 °C	0.900	0.900
Poff	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Qce	1058 kWh	790 kWh