

**Subtype Chappée ERIA S PLUS DUO R32 12-16**

Certificate Holder	BDR Thermea FR (CHAPPEE)
Address	57 rue de la Gare
ZIP	67580
City	Mertzwiller
Country	FR
Certification Body	ECC Eurovent Certita Certification
Subtype title	Chappée ERIA S PLUS DUO R32 12-16
Registration number	24.03.012
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.84 kg
Certification Date	19.03.2024
Testing basis	EN 14511: 2018 / EN 14825: 2018 / EN 16147: 2017 / EN 12102-1: 2017
Testing laboratory	BDR Thermea France

**Model ERIA S PLUS DUO R32 12 MR/EM**

Model name	ERIA S PLUS DUO R32 12 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 ηDHW	108 %
COP	2.60
Heating up time	0:57 h:min
Standby power input	32.4 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	12.10 kW	12.00 kW
El input	2.44 kW	3.87 kW
COP	4.95	3.10

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	10.55 kW	10.77 kW
Cooling capacity	4.19	2.92
EER	2.52	3.69

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
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Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	178 %	135 %
P <sub>rated</sub>	12.00 kW	11.58 kW
SCOP	4.52	3.46
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh Tj = -7°C</sub>	10.61 kW	10.25 kW
COP T <sub>j</sub> = -7°C	2.88	2.01
C <sub>dh Tj = -7 °C</sub>	0.900	0.900
P <sub>dh Tj = +2°C</sub>	6.48 kW	6.52 kW
COP T <sub>j</sub> = +2°C	4.30	3.44
C <sub>dh Tj = +2 °C</sub>	0.900	0.900
P <sub>dh Tj = +7°C</sub>	4.44 kW	4.36 kW
COP T <sub>j</sub> = +7°C	6.00	4.59
C <sub>dh Tj = +7 °C</sub>	0.900	0.900
P <sub>dh Tj = 12°C</sub>	3.74 kW	3.30 kW
COP T <sub>j</sub> = 12°C	8.47	6.05
C <sub>dh Tj = +12 °C</sub>	0.900	0.900
P <sub>dh Tj = T<sub>biv</sub></sub>	10.61 kW	10.25 kW
COP T <sub>j</sub> = T <sub>biv</sub>	2.88	2.01
P <sub>dh Tj = TOL or P<sub>dh Tj = T<sub>designh</sub></sub> if TOL &lt; T<sub>designh</sub></sub>	10.75 kW	9.10 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.79
C <sub>dh Tj = TOL or P<sub>dh Tj = T<sub>designh</sub></sub> if TOL &lt; T<sub>designh</sub></sub>	0.900	0.900
WTOL	65 °C	65 °C
P <sub>off</sub>	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	1.26 kW	2.50 kW
Annual energy consumption Q <sub>he</sub>	5482 kWh	6919 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	10.55 kW	10.77 kW
SEER	4.09	6.66
P <sub>dc Tj = 35°C</sub>	10.55 kW	10.77 kW
EER T <sub>j</sub> = 35°C	2.52	3.69
C <sub>dc Tj = 35 °C</sub>	0.900	0.900

Pdc Tj = 30°C	7.78 kW	7.88 kW
EER Tj = 30°C	3.58	5.39
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.17 kW	5.20 kW
EER Tj = 25°C	4.57	7.93
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.24 kW	3.03 kW
EER Tj = 20°C	5.05	9.28
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	1548 kWh	971 kWh

**Model ERIA S PLUS DUO R32 12 MR/HM**

Model name	ERIA S PLUS DUO R32 12 MR/HM
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 ηDHW	108 %
COP	2.60
Heating up time	0:57 h:min
Standby power input	32.4 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	12.10 kW	12.00 kW
El input	2.44 kW	3.87 kW
COP	4.95	3.10

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	10.55 kW	10.77 kW
Cooling capacity	4.19	2.92
EER	2.52	3.69

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
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Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	178 %	135 %
P <sub>rated</sub>	12.00 kW	11.58 kW
SCOP	4.52	3.46
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh Tj = -7°C</sub>	10.61 kW	10.25 kW
COP T <sub>j</sub> = -7°C	2.88	2.01
C <sub>dh Tj = -7 °C</sub>	0.900	0.900
P <sub>dh Tj = +2°C</sub>	6.48 kW	6.52 kW
COP T <sub>j</sub> = +2°C	4.30	3.44
C <sub>dh Tj = +2 °C</sub>	0.900	0.900
P <sub>dh Tj = +7°C</sub>	4.44 kW	4.36 kW
COP T <sub>j</sub> = +7°C	6.00	4.59
C <sub>dh Tj = +7 °C</sub>	0.900	0.900
P <sub>dh Tj = 12°C</sub>	3.74 kW	3.30 kW
COP T <sub>j</sub> = 12°C	8.47	6.05
C <sub>dh Tj = +12 °C</sub>	0.900	0.900
P <sub>dh Tj = T<sub>biv</sub></sub>	10.61 kW	10.25 kW
COP T <sub>j</sub> = T <sub>biv</sub>	2.88	2.01
P <sub>dh Tj = TOL or P<sub>dh Tj = T<sub>designh</sub></sub> if TOL &lt; T<sub>designh</sub></sub>	10.75 kW	9.10 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.79
C <sub>dh Tj = TOL or P<sub>dh Tj = T<sub>designh</sub></sub> if TOL &lt; T<sub>designh</sub></sub>	0.900	0.900
WTOL	65 °C	65 °C
P <sub>off</sub>	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	1.26 kW	2.50 kW
Annual energy consumption Q <sub>he</sub>	5482 kWh	6919 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	10.55 kW	10.77 kW
SEER	4.09	6.66
P <sub>dc Tj = 35°C</sub>	10.55 kW	10.77 kW
EER T <sub>j</sub> = 35°C	2.52	3.69
C <sub>dc Tj = 35 °C</sub>	0.900	0.900

Pdc Tj = 30°C	7.78 kW	7.88 kW
EER Tj = 30°C	3.58	5.39
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.17 kW	5.20 kW
EER Tj = 25°C	4.57	7.93
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.24 kW	3.03 kW
EER Tj = 20°C	5.05	9.28
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	1548 kWh	971 kWh

**Model ERIA S PLUS DUO R32 12 TR/ET**

Model name	ERIA S PLUS DUO R32 12 TR/ET
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	3x400V 50Hz
Off-peak product	n/a

**Outdoor Air/Water****EN 16147 | Average Climate**

Declared load profile	L
Efficiency ηDHW	108 %
COP	2.60
Heating up time	0:57 h:min
Standby power input	32.4 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	12.10 kW	12.00 kW
El input	2.44 kW	3.87 kW
COP	4.95	3.10

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	10.55 kW	10.77 kW
Cooling capacity	4.19	2.92
EER	2.52	3.69

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
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Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	178 %	135 %
P <sub>rated</sub>	12.00 kW	11.58 kW
SCOP	4.52	3.46
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh Tj = -7°C</sub>	10.61 kW	10.25 kW
COP T <sub>j</sub> = -7°C	2.88	2.01
C <sub>dh Tj = -7 °C</sub>	0.900	0.900
P <sub>dh Tj = +2°C</sub>	6.48 kW	6.52 kW
COP T <sub>j</sub> = +2°C	4.30	3.44
C <sub>dh Tj = +2 °C</sub>	0.900	0.900
P <sub>dh Tj = +7°C</sub>	4.44 kW	4.36 kW
COP T <sub>j</sub> = +7°C	6.00	4.59
C <sub>dh Tj = +7 °C</sub>	0.900	0.900
P <sub>dh Tj = 12°C</sub>	3.74 kW	3.30 kW
COP T <sub>j</sub> = 12°C	8.47	6.05
C <sub>dh Tj = +12 °C</sub>	0.900	0.900
P <sub>dh Tj = T<sub>biv</sub></sub>	10.61 kW	10.25 kW
COP T <sub>j</sub> = T <sub>biv</sub>	2.88	2.01
P <sub>dh Tj = TOL or P<sub>dh Tj = T<sub>designh</sub></sub> if TOL &lt; T<sub>designh</sub></sub>	10.75 kW	9.10 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.79
C <sub>dh Tj = TOL or P<sub>dh Tj = T<sub>designh</sub></sub> if TOL &lt; T<sub>designh</sub></sub>	0.900	0.900
WTOL	65 °C	65 °C
P <sub>off</sub>	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.26 kW	2.50 kW
Annual energy consumption Q <sub>he</sub>	5482 kWh	6919 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	10.55 kW	10.77 kW
SEER	4.09	6.66
P <sub>dc Tj = 35°C</sub>	10.55 kW	10.77 kW
EER T <sub>j</sub> = 35°C	2.52	3.69
C <sub>dc Tj = 35 °C</sub>	0.900	0.900

Pdc Tj = 30°C	7.78 kW	7.88 kW
EER Tj = 30°C	3.58	5.39
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.17 kW	5.20 kW
EER Tj = 25°C	4.57	7.93
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.24 kW	3.03 kW
EER Tj = 20°C	5.05	9.28
Cdc Tj = 20 °C	0.900	0.900
Poff	20 W	20 W
PTO	10 W	10 W
PSB	20 W	20 W
PCK	0 W	0 W
Annual energy consumption Qce	1548 kWh	971 kWh

**Model ERIA S PLUS DUO R32 12 TR/HT**

Model name	ERIA S PLUS DUO R32 12 TR/HT
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	3x400V 50Hz
Off-peak product	n/a

**Outdoor Air/Water****EN 16147 | Average Climate**

Declared load profile	L
Efficiency ηDHW	108 %
COP	2.60
Heating up time	0:57 h:min
Standby power input	32.4 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	12.10 kW	12.00 kW
El input	2.44 kW	3.87 kW
COP	4.95	3.10

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	10.55 kW	10.77 kW
Cooling capacity	4.19	2.92
EER	2.52	3.69

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
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Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	178 %	135 %
P <sub>rated</sub>	12.00 kW	11.58 kW
SCOP	4.52	3.46
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh Tj = -7°C</sub>	10.61 kW	10.25 kW
COP T <sub>j</sub> = -7°C	2.88	2.01
C <sub>dh Tj = -7 °C</sub>	0.900	0.900
P <sub>dh Tj = +2°C</sub>	6.48 kW	6.52 kW
COP T <sub>j</sub> = +2°C	4.30	3.44
C <sub>dh Tj = +2 °C</sub>	0.900	0.900
P <sub>dh Tj = +7°C</sub>	4.44 kW	4.36 kW
COP T <sub>j</sub> = +7°C	6.00	4.59
C <sub>dh Tj = +7 °C</sub>	0.900	0.900
P <sub>dh Tj = 12°C</sub>	3.74 kW	3.30 kW
COP T <sub>j</sub> = 12°C	8.47	6.05
C <sub>dh Tj = +12 °C</sub>	0.900	0.900
P <sub>dh Tj = T<sub>biv</sub></sub>	10.61 kW	10.25 kW
COP T <sub>j</sub> = T <sub>biv</sub>	2.88	2.01
P <sub>dh Tj = TOL or P<sub>dh Tj = T<sub>designh</sub></sub> if TOL &lt; T<sub>designh</sub></sub>	10.75 kW	9.10 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.79
C <sub>dh Tj = TOL or P<sub>dh Tj = T<sub>designh</sub></sub> if TOL &lt; T<sub>designh</sub></sub>	0.900	0.900
WTOL	65 °C	65 °C
P <sub>off</sub>	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.26 kW	2.50 kW
Annual energy consumption Q <sub>he</sub>	5482 kWh	6919 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	10.55 kW	10.77 kW
SEER	4.09	6.66
P <sub>dc Tj = 35°C</sub>	10.55 kW	10.77 kW
EER T <sub>j</sub> = 35°C	2.52	3.69
C <sub>dc Tj = 35 °C</sub>	0.900	0.900

Pdc Tj = 30°C	7.78 kW	7.88 kW
EER Tj = 30°C	3.58	5.39
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.17 kW	5.20 kW
EER Tj = 25°C	4.57	7.93
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.24 kW	3.03 kW
EER Tj = 20°C	5.05	9.28
Cdc Tj = 20 °C	0.900	0.900
Poff	20 W	20 W
PTO	10 W	10 W
PSB	20 W	20 W
PCK	0 W	0 W
Annual energy consumption Qce	1548 kWh	971 kWh

**Model ERIA S PLUS DUO R32 16 MR/EM**

Model name	ERIA S PLUS DUO R32 16 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 ηDHW	108 %
COP	2.60
Heating up time	0:57 h:min
Standby power input	32.4 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	16.00 kW	16.00 kW
El input	3.56 kW	5.52 kW
COP	4.50	2.90

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	12.36 kW	11.63 kW
Cooling capacity	5.44	3.22
EER	2.27	3.61

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
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Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	177 %	133 %
P <sub>rated</sub>	15.21 kW	13.02 kW
SCOP	4.50	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh Tj = -7°C</sub>	13.45 kW	11.52 kW
COP T <sub>j</sub> = -7°C	2.72	1.99
C <sub>dh Tj = -7 °C</sub>	0.900	0.900
P <sub>dh Tj = +2°C</sub>	8.20 kW	7.18 kW
COP T <sub>j</sub> = +2°C	4.30	3.34
C <sub>dh Tj = +2 °C</sub>	0.900	0.900
P <sub>dh Tj = +7°C</sub>	5.70 kW	4.56 kW
COP T <sub>j</sub> = +7°C	6.20	4.61
C <sub>dh Tj = +7 °C</sub>	0.900	0.900
P <sub>dh Tj = 12°C</sub>	3.78 kW	3.32 kW
COP T <sub>j</sub> = 12°C	8.51	5.80
C <sub>dh Tj = +12 °C</sub>	0.900	0.900
P <sub>dh Tj = T<sub>biv</sub></sub>	13.45 kW	11.52 kW
COP T <sub>j</sub> = T <sub>biv</sub>	2.72	1.99
P <sub>dh Tj = TOL or P<sub>dh Tj = T<sub>designh</sub></sub> if TOL &lt; T<sub>designh</sub></sub>	12.52 kW	10.33 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.48	1.80
C <sub>dh Tj = TOL or P<sub>dh Tj = T<sub>designh</sub></sub> if TOL &lt; T<sub>designh</sub></sub>	0.900	0.900
WTOL	65 °C	65 °C
P <sub>off</sub>	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	2.68 kW	2.67 kW
Annual energy consumption Q <sub>he</sub>	6979 kWh	7914 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	12.36 kW	11.63 kW
SEER	4.20	6.19
P <sub>dc Tj = 35°C</sub>	12.36 kW	11.63 kW
EER T <sub>j</sub> = 35°C	2.27	3.61
C <sub>dc Tj = 35 °C</sub>	0.900	0.900

Pdc Tj = 30°C	9.40 kW	8.67 kW
EER Tj = 30°C	3.41	5.22
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.89 kW	5.39 kW
EER Tj = 25°C	4.80	7.78
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.81 kW	2.48 kW
EER Tj = 20°C	5.80	6.89
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	1766 kWh	1128 kWh

**Model ERIA S PLUS DUO R32 16 MR/HM**

Model name	ERIA S PLUS DUO R32 16 MR/HM
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 ηDHW	108 %
COP	2.60
Heating up time	0:57 h:min
Standby power input	32.4 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	16.00 kW	16.00 kW
El input	3.56 kW	5.52 kW
COP	4.50	2.90

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	12.36 kW	11.63 kW
Cooling capacity	5.44	3.22
EER	2.27	3.61

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
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Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	177 %	133 %
P <sub>rated</sub>	15.21 kW	13.02 kW
SCOP	4.50	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh Tj = -7°C</sub>	13.45 kW	11.52 kW
COP T <sub>j</sub> = -7°C	2.72	1.99
C <sub>dh Tj = -7 °C</sub>	0.900	0.900
P <sub>dh Tj = +2°C</sub>	8.20 kW	7.18 kW
COP T <sub>j</sub> = +2°C	4.30	3.34
C <sub>dh Tj = +2 °C</sub>	0.900	0.900
P <sub>dh Tj = +7°C</sub>	5.70 kW	4.56 kW
COP T <sub>j</sub> = +7°C	6.20	4.61
C <sub>dh Tj = +7 °C</sub>	0.900	0.900
P <sub>dh Tj = 12°C</sub>	3.78 kW	3.32 kW
COP T <sub>j</sub> = 12°C	8.51	5.80
C <sub>dh Tj = +12 °C</sub>	0.900	0.900
P <sub>dh Tj = T<sub>biv</sub></sub>	13.45 kW	11.52 kW
COP T <sub>j</sub> = T <sub>biv</sub>	2.72	1.99
P <sub>dh Tj = TOL or P<sub>dh Tj = T<sub>designh</sub></sub> if TOL &lt; T<sub>designh</sub></sub>	12.52 kW	10.33 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.48	1.80
C <sub>dh Tj = TOL or P<sub>dh Tj = T<sub>designh</sub></sub> if TOL &lt; T<sub>designh</sub></sub>	0.900	0.900
WTOL	65 °C	65 °C
P <sub>off</sub>	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	2.68 kW	2.67 kW
Annual energy consumption Q <sub>he</sub>	6979 kWh	7914 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	12.36 kW	11.63 kW
SEER	4.20	6.19
P <sub>dc Tj = 35°C</sub>	12.36 kW	11.63 kW
EER T <sub>j</sub> = 35°C	2.27	3.61
C <sub>dc Tj = 35 °C</sub>	0.900	0.900

Pdc Tj = 30°C	9.40 kW	8.67 kW
EER Tj = 30°C	3.41	5.22
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.89 kW	5.39 kW
EER Tj = 25°C	4.80	7.78
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.81 kW	2.48 kW
EER Tj = 20°C	5.80	6.89
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	1766 kWh	1128 kWh

**Model ERIA S PLUS DUO R32 16 TR/ET**

Model name	ERIA S PLUS DUO R32 16 TR/ET
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	3x400V 50Hz
Off-peak product	n/a

**Outdoor Air/Water****EN 16147 | Average Climate**

Declared load profile	L
Efficiency ηDHW	108 %
COP	2.60
Heating up time	0:57 h:min
Standby power input	32.4 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	16.00 kW	16.00 kW
El input	3.56 kW	5.52 kW
COP	4.50	2.90

**EN 14511-2 | Cooling**

	Low temperature	Medium temperature
El input	12.36 kW	11.63 kW
Cooling capacity	5.44	3.22
EER	2.27	3.61

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
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Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	177 %	133 %
P <sub>rated</sub>	15.21 kW	13.02 kW
SCOP	4.50	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh Tj = -7°C</sub>	13.45 kW	11.52 kW
COP T <sub>j</sub> = -7°C	2.72	1.99
C <sub>dh Tj = -7 °C</sub>	0.900	0.900
P <sub>dh Tj = +2°C</sub>	8.20 kW	7.18 kW
COP T <sub>j</sub> = +2°C	4.30	3.34
C <sub>dh Tj = +2 °C</sub>	0.900	0.900
P <sub>dh Tj = +7°C</sub>	5.70 kW	4.56 kW
COP T <sub>j</sub> = +7°C	6.20	4.61
C <sub>dh Tj = +7 °C</sub>	0.900	0.900
P <sub>dh Tj = 12°C</sub>	3.78 kW	3.32 kW
COP T <sub>j</sub> = 12°C	8.51	5.80
C <sub>dh Tj = +12 °C</sub>	0.900	0.900
P <sub>dh Tj = T<sub>biv</sub></sub>	13.45 kW	11.52 kW
COP T <sub>j</sub> = T <sub>biv</sub>	2.72	1.99
P <sub>dh Tj = TOL or P<sub>dh Tj = T<sub>designh</sub></sub> if TOL &lt; T<sub>designh</sub></sub>	12.52 kW	10.33 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.48	1.80
C <sub>dh Tj = TOL or P<sub>dh Tj = T<sub>designh</sub></sub> if TOL &lt; T<sub>designh</sub></sub>	0.900	0.900
WTOL	65 °C	65 °C
P <sub>off</sub>	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.68 kW	2.67 kW
Annual energy consumption Q <sub>he</sub>	6979 kWh	7914 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	12.36 kW	11.63 kW
SEER	4.20	6.19
P <sub>dc Tj = 35°C</sub>	12.36 kW	11.63 kW
EER T <sub>j</sub> = 35°C	2.27	3.61
C <sub>dc Tj = 35 °C</sub>	0.900	0.900

Pdc Tj = 30°C	9.40 kW	8.67 kW
EER Tj = 30°C	3.41	5.22
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.89 kW	5.39 kW
EER Tj = 25°C	4.80	7.78
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.81 kW	2.48 kW
EER Tj = 20°C	5.80	6.89
Cdc Tj = 20 °C	0.900	0.900
Poff	20 W	20 W
PTO	10 W	10 W
PSB	20 W	20 W
PCK	0 W	0 W
Annual energy consumption Qce	1766 kWh	1128 kWh

**Model ERIA S PLUS DUO R32 16 TR/HT**

Model name	ERIA S PLUS DUO R32 16 TR/HT
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	3x400V 50Hz
Off-peak product	n/a

**Outdoor Air/Water****EN 16147 | Average Climate**

Declared load profile	L
Efficiency ηDHW	108 %
COP	2.60
Heating up time	0:57 h:min
Standby power input	32.4 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	16.00 kW	16.00 kW
El input	3.56 kW	5.52 kW
COP	4.50	2.90

**EN 14511-2 | Cooling**

	Low temperature	Medium temperature
El input	12.36 kW	11.63 kW
Cooling capacity	5.44	3.22
EER	2.27	3.61

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
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Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	177 %	133 %
P <sub>rated</sub>	15.21 kW	13.02 kW
SCOP	4.50	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh Tj = -7°C</sub>	13.45 kW	11.52 kW
COP T <sub>j</sub> = -7°C	2.72	1.99
C <sub>dh Tj = -7 °C</sub>	0.900	0.900
P <sub>dh Tj = +2°C</sub>	8.20 kW	7.18 kW
COP T <sub>j</sub> = +2°C	4.30	3.34
C <sub>dh Tj = +2 °C</sub>	0.900	0.900
P <sub>dh Tj = +7°C</sub>	5.70 kW	4.56 kW
COP T <sub>j</sub> = +7°C	6.20	4.61
C <sub>dh Tj = +7 °C</sub>	0.900	0.900
P <sub>dh Tj = 12°C</sub>	3.78 kW	3.32 kW
COP T <sub>j</sub> = 12°C	8.51	5.80
C <sub>dh Tj = +12 °C</sub>	0.900	0.900
P <sub>dh Tj = T<sub>biv</sub></sub>	13.45 kW	11.52 kW
COP T <sub>j</sub> = T <sub>biv</sub>	2.72	1.99
P <sub>dh Tj = TOL or P<sub>dh Tj = T<sub>designh</sub></sub> if TOL &lt; T<sub>designh</sub></sub>	12.52 kW	10.33 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.48	1.80
C <sub>dh Tj = TOL or P<sub>dh Tj = T<sub>designh</sub></sub> if TOL &lt; T<sub>designh</sub></sub>	0.900	0.900
WTOL	65 °C	65 °C
P <sub>off</sub>	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.68 kW	2.67 kW
Annual energy consumption Q <sub>he</sub>	6979 kWh	7914 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	12.36 kW	11.63 kW
SEER	4.20	6.19
P <sub>dc Tj = 35°C</sub>	12.36 kW	11.63 kW
EER T <sub>j</sub> = 35°C	2.27	3.61
C <sub>dc Tj = 35 °C</sub>	0.900	0.900

Pdc Tj = 30°C	9.40 kW	8.67 kW
EER Tj = 30°C	3.41	5.22
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.89 kW	5.39 kW
EER Tj = 25°C	4.80	7.78
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.81 kW	2.48 kW
EER Tj = 20°C	5.80	6.89
Cdc Tj = 20 °C	0.900	0.900
Poff	20 W	20 W
PTO	10 W	10 W
PSB	20 W	20 W
PCK	0 W	0 W
Annual energy consumption Qce	1766 kWh	1128 kWh