

Subtype Daikin Altherma 3 R MT ECH2O 08-12 kW (300L)

Certificate Holder	DAIKIN Europe N.V.
Address	Zandvoordestraat 300
ZIP	B-8400
City	Oostende
Country	BE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Daikin Altherma 3 R MT ECH2O 08-12 kW (300L)
Registration number	011-1W0657
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	3.25 kg
Certification Date	01.08.2023
Testing basis	HP KEYMARK certification scheme rules V12

Model ERRA08EV3 / ELSH(B)12P30E

Model name	ERRA08EV3 / ELSH(B)12P30E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
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}	115.7 %
COP	2.75
Heating up time	2:29 h:min
Standby power input	38.1 W
Reference hot water temperature	46.1 °C
Mixed water at 40°C	172.6 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	6.17 kW	7.72 kW
El input	1.25 kW	2.62 kW
COP	4.92	2.94

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.15 kW	
Cooling capacity	6.81	
EER	3.17	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44.7 dB(A)	44.7 dB(A)

Sound power level outdoor	56 dB(A)	56 dB(A)
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EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	184 %	130 %
P _{rated}	8.3 kW	12.5 kW
SCOP	4.69	3.34
T _{biv}	-7 °C	-2 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	7.5 kW	7.6 kW
COP T _j = -7°C	3.1	2.26
C _{dh} T _j = -7 °C	1	1
P _{dh} T _j = +2°C	4.4 kW	6.8 kW
COP T _j = +2°C	4.76	3.39
C _{dh} T _j = +2 °C	1	1
P _{dh} T _j = +7°C	4.3 kW	4.5 kW
COP T _j = +7°C	6.14	4.9
C _{dh} T _j = +7 °C	1	1
P _{dh} T _j = 12°C	6.6 kW	5.2 kW
COP T _j = 12°C	7.84	6.02
C _{dh} T _j = +12 °C	1	1
P _{dh} T _j = T _{biv}	7.5 kW	8.5 kW
COP T _j = T _{biv}	3.1	2.81
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	6.9 kW	6.9 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.8	1.97
WTOL	35 °C	55 °C
P _{off}	21 W	21 W
PTO	24 W	24 W
PSB	21 W	21 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	5.6 kW
Annual energy consumption Q _{he}	3659 kWh	7742 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	6.5 kW	
SEER	5.38	
P _{dc} T _j = 35°C	6.81 kW	
EER T _j = 35°C	3.17	
P _{dc} T _j = 30°C	5 kW	
EER T _j = 30°C	4.37	
C _{dc} T _j = 30 °C	0.98	

Pdc Tj = 25°C	3.01 kW
EER Tj = 25°C	6.58
Cdc Tj = 25 °C	0.94
Pdc Tj = 20°C	2.57 kW
EER Tj = 20°C	8
Cdc Tj = 20 °C	0.91
Poff	25 W
PTO	3 W
PSB	25 W
PCK	0 W

Model ERRA08EW1 / ELSH(B)12P30E

Model name	ERRA08EW1 / ELSH(B)12P30E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
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 η_{DHW}	119.3 %
COP	2.83
Heating up time	2:29 h:min
Standby power input	37.4 W
Reference hot water temperature	46.1 °C
Mixed water at 40°C	172.6 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	6.17 kW	7.72 kW
El input	1.21 kW	2.53 kW
COP	5.1	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.08 kW	
Cooling capacity	6.47	
EER	3.28	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44.7 dB(A)	44.7 dB(A)

Sound power level outdoor	56 dB(A)	56 dB(A)
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EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	190 %	134 %
P _{rated}	8.3 kW	12.5 kW
SCOP	4.81	3.42
T _{biv}	-7 °C	-2 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	7.5 kW	7.6 kW
COP T _j = -7°C	3.2	2.34
C _{dh} T _j = -7 °C	1	1
P _{dh} T _j = +2°C	4.4 kW	6.8 kW
COP T _j = +2°C	4.93	3.5
C _{dh} T _j = +2 °C	1	1
P _{dh} T _j = +7°C	4.3 kW	4.5 kW
COP T _j = +7°C	6.37	5.07
C _{dh} T _j = +7 °C	1	1
P _{dh} T _j = 12°C	6.6 kW	5.2 kW
COP T _j = 12°C	8.13	6.23
C _{dh} T _j = +12 °C	1	1
P _{dh} T _j = T _{biv}	7.5 kW	8.5 kW
COP T _j = T _{biv}	3.2	2.9
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	6.9 kW	6.9 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.9	2.04
WTOL	35 °C	55 °C
P _{off}	27 W	27 W
PTO	24 W	24 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	5.6 kW
Annual energy consumption Q _{he}	3561 kWh	7541 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	6.5 kW	
SEER	5.42	
P _{dc} T _j = 35°C	6.81 kW	
EER T _j = 35°C	3.28	
P _{dc} T _j = 30°C	5 kW	
EER T _j = 30°C	4.52	
C _{dc} T _j = 30 °C	0.97	

Pdc Tj = 25°C	3.01 kW
EER Tj = 25°C	6.66
Cdc Tj = 25 °C	0.94
Pdc Tj = 20°C	2.57 kW
EER Tj = 20°C	7.98
Cdc Tj = 20 °C	0.91
Poff	31 W
PTO	0 W
PSB	31 W
PCK	0 W

Model ERRA10EV3 / ELSH(B)12P30E

Model name	ERRA10EV3 / ELSH(B)12P30E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
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	115.7 %
COP	2.75
Heating up time	2:29 h:min
Standby power input	38.1 W
Reference hot water temperature	46.1 °C
Mixed water at 40°C	172.6 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	6.17 kW	7.72 kW
El input	1.25 kW	2.62 kW
COP	4.92	2.94

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.66 kW	
Cooling capacity	7.97	
EER	3	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44.7 dB(A)	44.7 dB(A)

Sound power level outdoor	56 dB(A)	56 dB(A)
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EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	186 %	131 %
P _{rated}	8.3 kW	12.5 kW
SCOP	4.71	3.34
T _{biv}	-10 °C	-2 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	7.5 kW	7.6 kW
COP T _j = -7°C	3.1	2.26
C _{dh} T _j = -7 °C	1	1
P _{dh} T _j = +2°C	4.4 kW	6.8 kW
COP T _j = +2°C	4.76	3.39
C _{dh} T _j = +2 °C	1	1
P _{dh} T _j = +7°C	4.3 kW	4.5 kW
COP T _j = +7°C	6.14	4.9
C _{dh} T _j = +7 °C	1	1
P _{dh} T _j = 12°C	6.6 kW	5.2 kW
COP T _j = 12°C	7.84	6.02
C _{dh} T _j = +12 °C	1	1
P _{dh} T _j = T _{biv}	8.1 kW	8.5 kW
COP T _j = T _{biv}	2.77	2.81
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.1 kW	8.2 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	2
WTOL	35 °C	55 °C
P _{off}	21 W	21 W
PTO	24 W	24 W
PSB	21 W	21 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	4.3 kW
Annual energy consumption Q _{he}	3637 kWh	7723 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	7.5 kW	
SEER	5.34	
P _{dc} T _j = 35°C	7.97 kW	
EER T _j = 35°C	3	
P _{dc} T _j = 30°C	5.76 kW	
EER T _j = 30°C	4.28	
C _{dc} T _j = 30 °C	0.98	

Pdc Tj = 25°C	3.63 kW
EER Tj = 25°C	6.31
Cdc Tj = 25 °C	0.95
Pdc Tj = 20°C	2.63 kW
EER Tj = 20°C	8.37
Cdc Tj = 20 °C	0.91
Poff	25 W
PTO	3 W
PSB	25 W
PCK	0 W

Model ERRA10EW1 / ELSH(B)12P30E

Model name	ERRA10EW1 / ELSH(B)12P30E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
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 η_{DHW}	119.3 %
COP	2.83
Heating up time	2:29 h:min
Standby power input	37.4 W
Reference hot water temperature	46.1 °C
Mixed water at 40°C	172.6 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	6.17 kW	7.72 kW
El input	1.21 kW	2.53 kW
COP	5.1	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.57 kW	
Cooling capacity	6.47	
EER	3.1	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44.7 dB(A)	44.7 dB(A)

Sound power level outdoor	56 dB(A)	56 dB(A)
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EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	191 %	134 %
P _{rated}	8.3 kW	12.5 kW
SCOP	4.84	3.43
T _{biv}	-10 °C	-2 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	7.5 kW	7.6 kW
COP T _j = -7°C	3.2	2.34
C _{dh} T _j = -7 °C	1	1
P _{dh} T _j = +2°C	4.4 kW	6.8 kW
COP T _j = +2°C	4.93	3.5
C _{dh} T _j = +2 °C	1	1
P _{dh} T _j = +7°C	4.3 kW	4.5 kW
COP T _j = +7°C	6.37	5.07
C _{dh} T _j = +7 °C	1	1
P _{dh} T _j = 12°C	6.6 kW	5.2 kW
COP T _j = 12°C	8.13	6.23
C _{dh} T _j = +12 °C	1	1
P _{dh} T _j = T _{biv}	8.1 kW	8.5 kW
COP T _j = T _{biv}	2.86	2.9
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.1 kW	8.2 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.86	2.06
WTOL	35 °C	55 °C
P _{off}	27 W	27 W
PTO	24 W	24 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	4.3 kW
Annual energy consumption Q _{he}	3539 kWh	7522 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	7.5 kW	
SEER	5.41	
P _{dc} T _j = 35°C	7.97 kW	
EER T _j = 35°C	3.1	
P _{dc} T _j = 30°C	5.76 kW	
EER T _j = 30°C	4.43	
C _{dc} T _j = 30 °C	0.98	

Pdc Tj = 25°C	3.63 kW
EER Tj = 25°C	6.47
Cdc Tj = 25 °C	0.95
Pdc Tj = 20°C	2.63 kW
EER Tj = 20°C	8.35
Cdc Tj = 20 °C	0.91
Poff	31 W
PTO	0 W
PSB	31 W
PCK	0 W

Model ERRA12EV3 / ELSH(B)12P30E

Model name	ERRA12EV3 / ELSH(B)12P30E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
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	115.7 %
COP	2.75
Heating up time	2:29 h:min
Standby power input	38.1 W
Reference hot water temperature	46.1 °C
Mixed water at 40°C	172.6 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	6.17 kW	7.72 kW
El input	1.25 kW	2.62 kW
COP	4.92	2.94

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.96 kW	
Cooling capacity	8.62	
EER	2.91	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44.7 dB(A)	44.7 dB(A)

Sound power level outdoor	56 dB(A)	56 dB(A)
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EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	186 %	135 %
P _{rated}	8.3 kW	12.5 kW
SCOP	4.71	3.44
T _{biv}	-10 °C	-5 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	7.5 kW	7.6 kW
COP T _j = -7°C	3.1	2.26
C _{dh} T _j = -7 °C	1	1
P _{dh} T _j = +2°C	4.4 kW	6.8 kW
COP T _j = +2°C	4.76	3.39
C _{dh} T _j = +2 °C	1	1
P _{dh} T _j = +7°C	4.3 kW	4.5 kW
COP T _j = +7°C	6.14	4.9
C _{dh} T _j = +7 °C	1	1
P _{dh} T _j = 12°C	6.6 kW	5.2 kW
COP T _j = 12°C	7.84	6.02
C _{dh} T _j = +12 °C	1	1
P _{dh} T _j = T _{biv}	8.1 kW	10 kW
COP T _j = T _{biv}	2.77	2.41
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.1 kW	8.2 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	2
WTOL	35 °C	55 °C
P _{off}	21 W	21 W
PTO	24 W	24 W
PSB	21 W	21 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	4.3 kW
Annual energy consumption Q _{he}	3637 kWh	7510 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	8.5 kW	
SEER	5.31	
P _{dc} T _j = 35°C	8.62 kW	
EER T _j = 35°C	2.91	
P _{dc} T _j = 30°C	6.68 kW	
EER T _j = 30°C	4.17	
C _{dc} T _j = 30 °C	0.98	

Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.13
Cdc Tj = 25 °C	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.75
Cdc Tj = 20 °C	0.91
Poff	25 W
PTO	3 W
PSB	25 W
PCK	0 W

Model ERRA12EW1 / ELSH(B)12P30E

Model name	ERRA12EW1 / ELSH(B)12P30E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
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 η_{DHW}	119.3 %
COP	2.83
Heating up time	2:29 h:min
Standby power input	37.4 W
Reference hot water temperature	46.1 °C
Mixed water at 40°C	172.6 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	6.17 kW	7.72 kW
El input	1.21 kW	2.53 kW
COP	5.1	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.86 kW	
Cooling capacity	6.47	
EER	3.01	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44.7 dB(A)	44.7 dB(A)

Sound power level outdoor	56 dB(A)	56 dB(A)
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EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	191 %	138 %
P _{rated}	8.3 kW	12.5 kW
SCOP	4.84	3.53
T _{biv}	-10 °C	-5 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	7.5 kW	7.6 kW
COP T _j = -7°C	3.2	2.34
C _{dh} T _j = -7 °C	1	1
P _{dh} T _j = +2°C	4.4 kW	6.8 kW
COP T _j = +2°C	4.93	3.5
C _{dh} T _j = +2 °C	1	1
P _{dh} T _j = +7°C	4.3 kW	4.5 kW
COP T _j = +7°C	6.37	5.07
C _{dh} T _j = +7 °C	1	1
P _{dh} T _j = 12°C	6.6 kW	5.2 kW
COP T _j = 12°C	8.13	6.23
C _{dh} T _j = +12 °C	1	1
P _{dh} T _j = T _{biv}	8.1 kW	10 kW
COP T _j = T _{biv}	2.86	2.48
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.1 kW	8.2 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.86	2.06
WTOL	35 °C	55 °C
P _{off}	27 W	27 W
PTO	24 W	24 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	4.3 kW
Annual energy consumption Q _{he}	3539 kWh	7309 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	8.5 kW	
SEER	5.41	
P _{dc} T _j = 35°C	8.62 kW	
EER T _j = 35°C	3.01	
P _{dc} T _j = 30°C	6.68 kW	
EER T _j = 30°C	4.32	
C _{dc} T _j = 30 °C	0.98	

Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.34
Cdc Tj = 25 °C	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.72
Cdc Tj = 20 °C	0.91
Poff	31 W
PTO	0 W
PSB	31 W
PCK	0 W

Model ERRA08EV3 / ELSX(B)12P30E

Model name	ERRA08EV3 / ELSX(B)12P30E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°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	115.7 %
COP	2.75
Heating up time	2:29 h:min
Standby power input	38.1 W
Reference hot water temperature	46.1 °C
Mixed water at 40°C	172.6 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	6.17 kW	7.72 kW
El input	1.25 kW	2.62 kW
COP	4.92	2.94

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.15 kW	
Cooling capacity	6.81	
EER	3.17	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	44.7 dB(A)	44.7 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	188 %	132 %
P _{rated}	8.3 kW	12.5 kW
SCOP	4.79	3.37
T _{biv}	-7 °C	-2 °C
T _{OL}	-10 °C	-10 °C
P _{dh T_j} = -7°C	7.5 kW	7.6 kW
COP T _j = -7°C	3.1	2.26
C _{dh} T _j = -7 °C	1	1
P _{dh T_j} = +2°C	4.4 kW	6.8 kW
COP T _j = +2°C	4.76	3.39
C _{dh} T _j = +2 °C	1	1
P _{dh T_j} = +7°C	4.3 kW	4.5 kW
COP T _j = +7°C	6.14	4.9
C _{dh} T _j = +7 °C	1	1
P _{dh T_j} = 12°C	6.6 kW	5.2 kW
COP T _j = 12°C	7.84	6.02
C _{dh} T _j = +12 °C	1	1
P _{dh T_j} = T _{biv}	7.5 kW	8.5 kW
COP T _j = T _{biv}	3.1	2.81
P _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	6.9 kW	6.9 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.8	1.97
WT _{OL}	35 °C	55 °C
P _{off}	21 W	21 W
PTO	24 W	24 W
PSB	21 W	21 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	5.6 kW
Annual energy consumption Q _{he}	3582 kWh	7664 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	6.5 kW	
SEER	5.38	
P _{dc T_j} = 35°C	6.81 kW	
EER T _j = 35°C	3.17	
P _{dc T_j} = 30°C	5 kW	
EER T _j = 30°C	4.37	

Cdc Tj = 30 °C	0.98
Pdc Tj = 25°C	3.01 kW
EER Tj = 25°C	6.58
Cdc Tj = 25 °C	0.94
Pdc Tj = 20°C	2.57 kW
EER Tj = 20°C	8
Cdc Tj = 20 °C	0.91
Poff	25 W
PTO	3 W
PSB	25 W
PCK	0 W

Model ERRA08EW1 / ELSX(B)12P30E

Model name	ERRA08EW1 / ELSX(B)12P30E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°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	119.3 %
COP	2.83
Heating up time	2:29 h:min
Standby power input	37.4 W
Reference hot water temperature	46.1 °C
Mixed water at 40°C	172.6 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	6.17 kW	7.72 kW
El input	1.21 kW	2.53 kW
COP	5.1	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.08 kW	
Cooling capacity	6.47	
EER	3.28	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	44.7 dB(A)	44.7 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	195 %	136 %
P _{rated}	8.3 kW	12.5 kW
SCOP	4.95	3.47
T _{biv}	-7 °C	-2 °C
T _{OL}	-10 °C	-10 °C
P _{dh T_j} = -7°C	7.5 kW	7.6 kW
COP T _j = -7°C	3.2	2.34
C _{dh T_j} = -7 °C	1	1
P _{dh T_j} = +2°C	4.4 kW	6.8 kW
COP T _j = +2°C	4.93	3.5
C _{dh T_j} = +2 °C	1	1
P _{dh T_j} = +7°C	4.3 kW	4.5 kW
COP T _j = +7°C	6.37	5.07
C _{dh T_j} = +7 °C	1	1
P _{dh T_j} = 12°C	6.6 kW	5.2 kW
COP T _j = 12°C	8.13	6.23
C _{dh T_j} = +12 °C	1	1
P _{dh T_j} = T _{biv}	7.5 kW	8.5 kW
COP T _j = T _{biv}	3.2	2.9
P _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	6.9 kW	6.9 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.9	2.04
WT _{OL}	35 °C	55 °C
P _{off}	27 W	27 W
PTO	24 W	24 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	5.6 kW
Annual energy consumption Q _{he}	3462 kWh	7442 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	6.5 kW	
SEER	5.42	
P _{dc T_j} = 35°C	6.81 kW	
EER T _j = 35°C	3.28	
P _{dc T_j} = 30°C	5 kW	
EER T _j = 30°C	4.52	

Cdc Tj = 30 °C	0.97
Pdc Tj = 25°C	3.01 kW
EER Tj = 25°C	6.66
Cdc Tj = 25 °C	0.94
Pdc Tj = 20°C	2.57 kW
EER Tj = 20°C	7.98
Cdc Tj = 20 °C	0.91
Poff	31 W
PTO	0 W
PSB	31 W
PCK	0 W

Model ERRA10EV3 / ELSX(B)12P30E

Model name	ERRA10EV3 / ELSX(B)12P30E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°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	115.7 %
COP	2.75
Heating up time	2:29 h:min
Standby power input	38.1 W
Reference hot water temperature	46.1 °C
Mixed water at 40°C	172.6 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	6.17 kW	7.72 kW
El input	1.25 kW	2.62 kW
COP	4.92	2.94

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.66 kW	
Cooling capacity	7.97	
EER	3	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	44.7 dB(A)	44.7 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	190 %	132 %
P _{rated}	8.3 kW	12.5 kW
SCOP	4.82	3.38
T _{biv}	-10 °C	-2 °C
T _{OL}	-10 °C	-10 °C
P _{dh T_j} = -7°C	7.5 kW	7.6 kW
COP T _j = -7°C	3.1	2.26
C _{dh T_j} = -7 °C	1	1
P _{dh T_j} = +2°C	4.4 kW	6.8 kW
COP T _j = +2°C	4.76	3.39
C _{dh T_j} = +2 °C	1	1
P _{dh T_j} = +7°C	4.3 kW	4.5 kW
COP T _j = +7°C	6.14	4.9
C _{dh T_j} = +7 °C	1	1
P _{dh T_j} = 12°C	6.6 kW	5.2 kW
COP T _j = 12°C	7.84	6.02
C _{dh T_j} = +12 °C	1	1
P _{dh T_j} = T _{biv}	8.1 kW	8.5 kW
COP T _j = T _{biv}	2.77	2.81
P _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	8.1 kW	8.2 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.77	2
WT _{OL}	35 °C	55 °C
P _{off}	21 W	21 W
PTO	24 W	24 W
PSB	21 W	21 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	4.3 kW
Annual energy consumption Q _{he}	3560 kWh	7645 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	7.5 kW	
SEER	5.34	
P _{dc T_j} = 35°C	7.97 kW	
EER T _j = 35°C	3	
P _{dc T_j} = 30°C	5.76 kW	
EER T _j = 30°C	4.28	

Cdc Tj = 30 °C	0.98
Pdc Tj = 25°C	3.63 kW
EER Tj = 25°C	6.31
Cdc Tj = 25 °C	0.95
Pdc Tj = 20°C	2.63 kW
EER Tj = 20°C	8.37
Cdc Tj = 20 °C	0.91
Poff	25 W
PTO	3 W
PSB	25 W
PCK	0 W

Model ERRA10EW1 / ELSX(B)12P30E

Model name	ERRA10EW1 / ELSX(B)12P30E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°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	119.3 %
COP	2.83
Heating up time	2:29 h:min
Standby power input	37.4 W
Reference hot water temperature	46.1 °C
Mixed water at 40°C	172.6 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	6.17 kW	7.72 kW
El input	1.21 kW	2.53 kW
COP	5.1	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.57 kW	
Cooling capacity	6.47	
EER	3.1	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	44.7 dB(A)	44.7 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	196 %	136 %
P _{rated}	8.30 kW	12.50 kW
SCOP	4.98	3.48
T _{biv}	-10 °C	-2 °C
T _{OL}	-10 °C	-10 °C
P _{dh T_j} = -7°C	7.50 kW	7.60 kW
COP T _j = -7°C	3.20	2.34
C _{dh T_j} = -7 °C	1.000	1.000
P _{dh T_j} = +2°C	4.40 kW	6.80 kW
COP T _j = +2°C	4.93	3.50
C _{dh T_j} = +2 °C	1.000	1.000
P _{dh T_j} = +7°C	4.30 kW	4.50 kW
COP T _j = +7°C	6.37	5.07
C _{dh T_j} = +7 °C	1.000	1.000
P _{dh T_j} = 12°C	6.60 kW	5.20 kW
COP T _j = 12°C	8.13	6.23
C _{dh T_j} = +12 °C	1.000	1.000
P _{dh T_j} = T _{biv}	8.10 kW	8.50 kW
COP T _j = T _{biv}	2.86	2.90
P _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	8.10 kW	8.20 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.86	2.06
C _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}		
WTOL	35 °C	55 °C
P _{off}	27 W	27 W
PTO	24 W	24 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	4.30 kW
Annual energy consumption Q _{he}	3440 kWh	7423 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	7.5 kW	
SEER	5.41	
P _{dc T_j} = 35°C	7.97 kW	
EER T _j = 35°C	3.1	
P _{dc T_j} = 30°C	5.76 kW	

EER T _j = 30°C	4.43
Cdc T _j = 30 °C	0.98
Pdc T _j = 25°C	3.63 kW
EER T _j = 25°C	6.47
Cdc T _j = 25 °C	0.95
Pdc T _j = 20°C	2.63 kW
EER T _j = 20°C	8.35
Cdc T _j = 20 °C	0.91
Poff	31 W
PTO	0 W
PSB	31 W
PCK	0 W

Model ERRA12EV3 / ELSX(B)12P30E

Model name	ERRA12EV3 / ELSX(B)12P30E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°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	115.7 %
COP	2.75
Heating up time	2:29 h:min
Standby power input	38.1 W
Reference hot water temperature	46.1 °C
Mixed water at 40°C	172.6 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	6.17 kW	7.72 kW
El input	1.25 kW	2.62 kW
COP	4.92	2.94

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.96 kW	
Cooling capacity	8.62	
EER	2.91	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	44.7 dB(A)	44.7 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	190 %	136 %
P _{rated}	8.3 kW	12.5 kW
SCOP	4.82	3.47
T _{biv}	-10 °C	-5 °C
T _{OL}	-10 °C	-10 °C
P _{dh T_j} = -7°C	7.5 kW	7.6 kW
COP T _j = -7°C	3.1	2.26
C _{dh T_j} = -7 °C	1	1
P _{dh T_j} = +2°C	4.4 kW	6.8 kW
COP T _j = +2°C	4.76	3.39
C _{dh T_j} = +2 °C	1	1
P _{dh T_j} = +7°C	4.3 kW	4.5 kW
COP T _j = +7°C	6.14	4.9
C _{dh T_j} = +7 °C	1	1
P _{dh T_j} = 12°C	6.6 kW	5.2 kW
COP T _j = 12°C	7.84	6.02
C _{dh T_j} = +12 °C	1	1
P _{dh T_j} = T _{biv}	8.1 kW	10 kW
COP T _j = T _{biv}	2.77	2.41
P _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	8.1 kW	8.2 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.77	2
WT _{OL}	35 °C	55 °C
P _{off}	21 W	21 W
PTO	24 W	24 W
PSB	21 W	21 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	4.3 kW
Annual energy consumption Q _{he}	3560 kWh	7433 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	8.5 kW	
SEER	5.31	
P _{dc T_j} = 35°C	8.62 kW	
EER T _j = 35°C	2.91	
P _{dc T_j} = 30°C	6.68 kW	
EER T _j = 30°C	4.17	

Cdc Tj = 30 °C	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.13
Cdc Tj = 25 °C	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.75
Cdc Tj = 20 °C	0.91
Poff	25 W
PTO	3 W
PSB	25 W
PCK	0 W

Model ERRA12EW1 / ELSX(B)12P30E

Model name	ERRA12EW1 / ELSX(B)12P30E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°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	119.3 %
COP	2.83
Heating up time	2:29 h:min
Standby power input	37.4 W
Reference hot water temperature	46.1 °C
Mixed water at 40°C	172.6 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	6.17 kW	7.72 kW
El input	1.21 kW	2.53 kW
COP	5.1	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.86 kW	
Cooling capacity	6.47	
EER	3.01	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	44.7 dB(A)	44.7 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	196 %	140 %
P _{rated}	8.3 kW	12.5 kW
SCOP	4.98	3.58
T _{biv}	-10 °C	-5 °C
T _{OL}	-10 °C	-10 °C
P _{dh T_j} = -7°C	7.5 kW	7.6 kW
COP T _j = -7°C	3.2	2.34
C _{dh T_j} = -7 °C	1	1
P _{dh T_j} = +2°C	4.4 kW	6.8 kW
COP T _j = +2°C	4.93	3.5
C _{dh T_j} = +2 °C	1	1
P _{dh T_j} = +7°C	4.3 kW	4.5 kW
COP T _j = +7°C	6.37	5.07
C _{dh T_j} = +7 °C	1	1
P _{dh T_j} = 12°C	6.6 kW	5.2 kW
COP T _j = 12°C	8.13	6.23
C _{dh T_j} = +12 °C	1	1
P _{dh T_j} = T _{biv}	8.1 kW	10 kW
COP T _j = T _{biv}	2.86	2.48
P _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	8.1 kW	8.2 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.86	2.06
WT _{OL}	35 °C	55 °C
P _{off}	27 W	27 W
PTO	24 W	24 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	4.3 kW
Annual energy consumption Q _{he}	3440 kWh	7210 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	8.5 kW	
SEER	5.41	
P _{dc T_j} = 35°C	8.62 kW	
EER T _j = 35°C	3.01	
P _{dc T_j} = 30°C	6.68 kW	
EER T _j = 30°C	4.32	

Cdc Tj = 30 °C	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.34
Cdc Tj = 25 °C	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.72
Cdc Tj = 20 °C	0.91
Poff	31 W
PTO	0 W
PSB	31 W
PCK	0 W