Subtype Daikin Altherma 3 R MT ECH2O 08-12 kW (500L)

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 (500L)
Registration number	011-1W0658
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)12P50E	
Model name	ERRA08EV3 / ELSH(B)12P50E
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	XL
Efficiency ηDHW	131.5 %
COP	3.19
Heating up time	3:28 h:min
Standby power input	32.7 W
Reference hot water temperature	44.7 °C
Mixed water at 40°C	260 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)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	184 %	130 %
Prated	8.3 kW	12.5 kW
SCOP	4.69	3.34
Tbiv	-7 °C	-2 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.1	2.26
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	4.4 kW	6.8 kW
COP Tj = +2°C	4.76	3.39
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.3 kW	4.5 kW
COP Tj = +7°C	6.14	4.9
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	6.6 kW	5.2 kW
COP Tj = 12°C	7.84	6.02
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	7.5 kW	8.5 kW
COP Tj = Tbiv	3.1	2.81
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.9 kW	6.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	1.97
WTOL	35 °C	55 °C
Poff	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 Qhe	3659 kWh	7742 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.5 kW	
SEER	5.38	
Pdc Tj = 35°C	6.81 kW	
EER Tj = 35°C	3.17	
Pdc Tj = 30°C	5 kW	
EER Tj = 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 / ELSH(B)12P50E	
Model name	ERRA08EW1 / ELSH(B)12P50E
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	XL
Efficiency ηDHW	135.7 %
COP	3.29
Heating up time	3:28 h:min
Standby power input	32.5 W
Reference hot water temperature	44.7 °C
Mixed water at 40°C	260 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)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	190 %	134 %
Prated	8.3 kW	12.5 kW
SCOP	4.81	3.42
Tbiv	-7 °C	-2 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.2	2.34
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	4.4 kW	6.8 kW
COP Tj = +2°C	4.93	3.5
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.3 kW	4.5 kW
COP Tj = +7°C	6.37	5.07
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	6.6 kW	5.2 kW
COP Tj = 12°C	8.13	6.23
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	7.5 kW	8.5 kW
COP Tj = Tbiv	3.2	2.9
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.9 kW	6.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.04
WTOL	35 °C	55 °C
Poff	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 Qhe	3561 kWh	7541 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.5 kW	
SEER	5.42	
Pdc Tj = 35°C	6.81 kW	
EER Tj = 35°C	3.28	
Pdc Tj = 30°C	5 kW	
EER Tj = 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 / ELSH(B)12P50E	
Model name	ERRA10EV3 / ELSH(B)12P50E
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	XL
Efficiency ηDHW	131.5 %
COP	3.19
Heating up time	3:28 h:min
Standby power input	32.7 W
Reference hot water temperature	44.7 °C
Mixed water at 40°C	260 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)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	186 %	131 %
Prated	8.3 kW	12.5 kW
SCOP	4.71	3.34
Tbiv	-10 °C	-2 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.1	2.26
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	4.4 kW	6.8 kW
COP Tj = +2°C	4.76	3.39
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.3 kW	4.5 kW
COP Tj = +7°C	6.14	4.9
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	6.6 kW	5.2 kW
COP Tj = 12°C	7.84	6.02
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	8.1 kW	8.5 kW
COP Tj = Tbiv	2.77	2.81
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.1 kW	8.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	2
WTOL	35 °C	55 °C
Poff	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 Qhe	3637 kWh	7723 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.5 kW	
SEER	5.34	
Pdc Tj = 35°C	7.97 kW	
EER Tj = 35°C	3	
Pdc Tj = 30°C	5.76 kW	
EER Tj = 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 / ELSH(B)12P50E	
Model name	ERRA10EW1 / ELSH(B)12P50E
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	XL
Efficiency ηDHW	135.7 %
COP	3.29
Heating up time	3:28 h:min
Standby power input	32.5 W
Reference hot water temperature	44.7 °C
Mixed water at 40°C	260 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)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	191 %	134 %
Prated	8.3 kW	12.5 kW
SCOP	4.84	3.43
Tbiv	-10 °C	-2 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.2	2.34
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	4.4 kW	6.8 kW
COP Tj = +2°C	4.93	3.5
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.3 kW	4.5 kW
COP Tj = +7°C	6.37	5.07
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	6.6 kW	5.2 kW
COP Tj = 12°C	8.13	6.23
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	8.1 kW	8.5 kW
COP Tj = Tbiv	2.86	2.9
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.1 kW	8.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.06
WTOL	35 °C	55 °C
Poff	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 Qhe	3539 kWh	7522 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.5 kW	
SEER	5.41	
Pdc Tj = 35°C	7.97 kW	
EER Tj = 35°C	3.1	
Pdc Tj = 30°C	5.76 kW	
EER Tj = 30°C	4.43	
Cdc Tj = 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)12P50E	
Model name	ERRA12EV3 / ELSH(B)12P50E
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	XL
Efficiency ηDHW	131.5 %
COP	3.19
Heating up time	3:28 h:min
Standby power input	32.7 W
Reference hot water temperature	44.7 °C
Mixed water at 40°C	260 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)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	186 %	135 %
Prated	8.3 kW	12.5 kW
SCOP	4.71	3.44
Tbiv	-10 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.1	2.26
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	4.4 kW	6.8 kW
COP Tj = +2°C	4.76	3.39
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.3 kW	4.5 kW
COP Tj = +7°C	6.14	4.9
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	6.6 kW	5.2 kW
COP Tj = 12°C	7.84	6.02
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	8.1 kW	10 kW
COP Tj = Tbiv	2.77	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.1 kW	8.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	2
WTOL	35 °C	55 °C
Poff	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 Qhe	3637 kWh	7510 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	8.5 kW	
SEER	5.31	
Pdc Tj = 35°C	8.62 kW	
EER Tj = 35°C	2.91	
Pdc Tj = 30°C	6.68 kW	
EER Tj = 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 / ELSH(B)12P50E	
Model name	ERRA12EW1 / ELSH(B)12P50E
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	XL
Efficiency ηDHW	135.7 %
COP	3.29
Heating up time	3:28 h:min
Standby power input	32.5 W
Reference hot water temperature	44.7 °C
Mixed water at 40°C	260 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)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	191 %	138 %
Prated	8.3 kW	12.5 kW
SCOP	4.84	3.53
Tbiv	-10 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.2	2.34
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	4.4 kW	6.8 kW
COP Tj = +2°C	4.93	3.5
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.3 kW	4.5 kW
COP Tj = +7°C	6.37	5.07
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	6.6 kW	5.2 kW
COP Tj = 12°C	8.13	6.23
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	8.1 kW	10 kW
COP Tj = Tbiv	2.86	2.48
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.1 kW	8.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.06
WTOL	35 °C	55 °C
Poff	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 Qhe	3539 kWh	7309 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	8.5 kW	
SEER	5.41	
Pdc Tj = 35°C	8.62 kW	
EER Tj = 35°C	3.01	
Pdc Tj = 30°C	6.68 kW	
EER Tj = 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

Model ERRA08EV3 / ELSX(B)12P50E	
Model name	ERRA08EV3 / ELSX(B)12P50E
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	XL
Efficiency ηDHW	131.5 %
COP	3.19
Heating up time	3:28 h:min
Standby power input	32.7 W
Reference hot water temperature	44.7 °C
Mixed water at 40°C	260 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)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	188 %	132 %
Prated	8.3 kW	12.5 kW
SCOP	4.79	3.37
Tbiv	-7 °C	-2 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.1	2.26
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	4.4 kW	6.8 kW
COP Tj = +2°C	4.76	3.39
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.3 kW	4.5 kW
COP Tj = +7°C	6.14	4.9
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	6.6 kW	5.2 kW
COP Tj = 12°C	7.84	6.02
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	7.5 kW	8.5 kW
COP Tj = Tbiv	3.1	2.81
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.9 kW	6.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	1.97
WTOL	35 °C	55 °C
Poff	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 Qhe	3582 kWh	7664 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.5 kW	
SEER	5.38	
Pdc Tj = 35°C	6.81 kW	
EER Tj = 35°C	3.17	
Pdc Tj = 30°C	5 kW	
EER Tj = 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)12P50E	
Model name	ERRA08EW1 / ELSX(B)12P50E
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	XL
Efficiency ηDHW	135.7 %
COP	3.29
Heating up time	3:28 h:min
Standby power input	32.5 W
Reference hot water temperature	44.7 °C
Mixed water at 40°C	260 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)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	195 %	136 %
Prated	8.3 kW	12.5 kW
SCOP	4.95	3.47
Tbiv	-7 °C	-2 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.2	2.34
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	4.4 kW	6.8 kW
COP Tj = +2°C	4.93	3.5
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.3 kW	4.5 kW
COP Tj = +7°C	6.37	5.07
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	6.6 kW	5.2 kW
COP Tj = 12°C	8.13	6.23
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	7.5 kW	8.5 kW
COP Tj = Tbiv	3.2	2.9
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.9 kW	6.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.9	2.04
WTOL	35 °C	55 °C
Poff	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 Qhe	3462 kWh	7442 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.5 kW	
SEER	5.42	
Pdc Tj = 35°C	6.81 kW	
EER Tj = 35°C	3.28	
Pdc Tj = 30°C	5 kW	
EER Tj = 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)12P50E	
Model name	ERRA10EV3 / ELSX(B)12P50E
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	XL
Efficiency ηDHW	131.5 %
COP	3.19
Heating up time	3:28 h:min
Standby power input	32.7 W
Reference hot water temperature	44.7 °C
Mixed water at 40°C	260 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)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	190 %	132 %
Prated	8.3 kW	12.5 kW
SCOP	4.82	3.38
Tbiv	-10 °C	-2 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.1	2.26
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	4.4 kW	6.8 kW
COP Tj = +2°C	4.76	3.39
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.3 kW	4.5 kW
COP Tj = +7°C	6.14	4.9
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	6.6 kW	5.2 kW
COP Tj = 12°C	7.84	6.02
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	8.1 kW	8.5 kW
COP Tj = Tbiv	2.77	2.81
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.1 kW	8.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	2
WTOL	35 °C	55 °C
Poff	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 Qhe	3560 kWh	7645 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.5 kW	
SEER	5.34	
Pdc Tj = 35°C	7.97 kW	
EER Tj = 35°C	3	
Pdc Tj = 30°C	5.76 kW	
EER Tj = 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)12P50E		
Model name	ERRA10EW1 / ELSX(B)12P50E	
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	XL	
Efficiency ηDHW	135.7 %	
COP	3.29	
Heating up time	3:28 h:min	
Standby power input	32.5 W	
Reference hot water temperature	44.7 °C	
Mixed water at 40°C	260 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)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	196 %	136 %
Prated	8.30 kW	12.50 kW
SCOP	4.98	3.48
Tbiv	-10 °C	-2 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.50 kW	7.60 kW
COP Tj = -7°C	3.20	2.34
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.40 kW	6.80 kW
COP Tj = +2°C	4.93	3.50
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	4.30 kW	4.50 kW
COP Tj = +7°C	6.37	5.07
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	6.60 kW	5.20 kW
COP Tj = 12°C	8.13	6.23
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	8.10 kW	8.50 kW
COP Tj = Tbiv	2.86	2.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.10 kW	8.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.06
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	35 °C	55 °C
Poff	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 Qhe	3440 kWh	7423 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.5 kW	
SEER	5.41	
Pdc Tj = 35°C	7.97 kW	
EER Tj = 35°C	3.1	
Pdc Tj = 30°C	5.76 kW	

EER Tj = 30°C	4.43
Cdc Tj = 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 / ELSX(B)12P50E	
Model name	ERRA12EV3 / ELSX(B)12P50E
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	XL
Efficiency ηDHW	131.5 %
COP	3.19
Heating up time	3:28 h:min
Standby power input	32.7 W
Reference hot water temperature	44.7 °C
Mixed water at 40°C	260 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)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	190 %	136 %
Prated	8.3 kW	12.5 kW
SCOP	4.82	3.47
Tbiv	-10 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.1	2.26
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	4.4 kW	6.8 kW
COP Tj = +2°C	4.76	3.39
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.3 kW	4.5 kW
COP Tj = +7°C	6.14	4.9
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	6.6 kW	5.2 kW
COP Tj = 12°C	7.84	6.02
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	8.1 kW	10 kW
COP Tj = Tbiv	2.77	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.1 kW	8.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	2
WTOL	35 °C	55 °C
Poff	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 Qhe	3560 kWh	7433 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	8.5 kW	
SEER	5.31	
Pdc Tj = 35°C	8.62 kW	
EER Tj = 35°C	2.91	
Pdc Tj = 30°C	6.68 kW	
EER Tj = 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)12P50E	
Model name	ERRA12EW1 / ELSX(B)12P50E
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	XL
Efficiency ηDHW	135.7 %
COP	3.29
Heating up time	3:28 h:min
Standby power input	32.5 W
Reference hot water temperature	44.7 °C
Mixed water at 40°C	260 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)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	196 %	140 %
Prated	8.3 kW	12.5 kW
SCOP	4.98	3.58
Tbiv	-10 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.2	2.34
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	4.4 kW	6.8 kW
COP Tj = +2°C	4.93	3.5
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.3 kW	4.5 kW
COP Tj = +7°C	6.37	5.07
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	6.6 kW	5.2 kW
COP Tj = 12°C	8.13	6.23
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	8.1 kW	10 kW
COP Tj = Tbiv	2.86	2.48
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.1 kW	8.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.06
WTOL	35 °C	55 °C
Poff	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 Qhe	3440 kWh	7210 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	8.5 kW	
SEER	5.41	
Pdc Tj = 35°C	8.62 kW	
EER Tj = 35°C	3.01	
Pdc Tj = 30°C	6.68 kW	
EER Tj = 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