

Subtype DAIKIN ALTHERMA 3 R F 8KW (180L) /A

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 F 8KW (180L) /A
Registration number	011-1W0251
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.5 kg
Certification Date	27.03.2018
Testing basis	HP KEYMARK certification scheme rules rev. 14
Testing laboratory	Danish Technological Institute (DTI), DK

Model ERGA08EVA / EHVX08S18E6V(G)

Model name	ERGA08EVA / EHVX08S18E6V(G)
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 η_{DHW}	125 %
COP	3.10
Heating up time	1:34 h:min
Standby power input	28.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	238 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	7.50 kW	7.50 kW
El input	1.63 kW	2.78 kW
COP	4.60	2.70

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	1.73 kW	
Cooling capacity	5.44	
EER	3.14	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

Sound power level outdoor	62 dB(A)	62 dB(A)
---------------------------	----------	----------

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	181 %	129 %
P _{rated}	8.00 kW	7.50 kW
SCOP	4.61	3.30
T _{biv}	-8 °C	-6 °C
TOL	-10 °C	-10 °C
P _{dh Tj = -7°C}	7.00 kW	5.90 kW
COP T _{j = -7°C}	2.77	1.98
C _{dh Tj = -7 °C}	1.000	1.000
P _{dh Tj = +2°C}	4.20 kW	4.10 kW
COP T _{j = +2°C}	4.35	3.18
C _{dh Tj = +2 °C}	1.000	1.000
P _{dh Tj = +7°C}	3.30 kW	3.00 kW
COP T _{j = +7°C}	6.49	4.54
C _{dh Tj = +7 °C}	1.000	1.000
P _{dh Tj = 12°C}	3.90 kW	3.70 kW
COP T _{j = 12°C}	8.52	6.16
C _{dh Tj = +12 °C}	1.000	1.000
P _{dh Tj = T_{biv}}	7.50 kW	6.40 kW
COP T _{j = T_{biv}}	2.66	2.18
P _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	6.90 kW	4.50 kW
COP T _{j = TOL or COP T_{j = T_{designh}} if TOL < T_{designh}}	2.41	1.43
C _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	1.000	1.000
WTOL	35 °C	55 °C
P _{off}	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.10 kW	3.00 kW
Annual energy consumption Q _{he}	3588 kWh	4694 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	5.40 kW	
SEER	5.71	
P _{dc Tj = 35°C}	5.44 kW	
EER T _{j = 35°C}	3.14	
P _{dc Tj = 30°C}	4.02 kW	
EER T _{j = 30°C}	4.84	

Cdc Tj = 30 °C	1.0
Pdc Tj = 25°C	2.47 kW
EER Tj = 25°C	6.86
Cdc Tj = 25 °C	1.0
Pdc Tj = 20°C	2.54 kW
EER Tj = 20°C	8.47
Cdc Tj = 20 °C	1.0
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	571 kWh

Model ERGA08EVA / EHVX08S18E9W

Model name	ERGA08EVA / EHVX08S18E9W
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 η_{DHW}	125 %
COP	3.10
Heating up time	1:34 h:min
Standby power input	28.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	238 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	7.50 kW	7.50 kW
El input	1.63 kW	2.78 kW
COP	4.60	2.70

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	1.73 kW	
Cooling capacity	5.44	
EER	3.14	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

Sound power level outdoor	62 dB(A)	62 dB(A)
---------------------------	----------	----------

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	181 %	129 %
Prated	8.00 kW	7.50 kW
SCOP	4.61	3.30
Tbiv	-8 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.00 kW	5.90 kW
COP Tj = -7°C	2.77	1.98
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.20 kW	4.10 kW
COP Tj = +2°C	4.35	3.18
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	3.30 kW	3.00 kW
COP Tj = +7°C	6.49	4.54
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	3.90 kW	3.70 kW
COP Tj = 12°C	8.52	6.16
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	7.50 kW	6.40 kW
COP Tj = Tbiv	2.66	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.90 kW	4.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.43
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	35 °C	55 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.10 kW	3.00 kW
Annual energy consumption Qhe	3588 kWh	4694 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	5.40 kW	
SEER	5.71	
Pdc Tj = 35°C	5.44 kW	
EER Tj = 35°C	3.14	
Pdc Tj = 30°C	4.02 kW	
EER Tj = 30°C	4.84	

Cdc Tj = 30 °C	1.0
Pdc Tj = 25°C	2.47 kW
EER Tj = 25°C	6.86
Cdc Tj = 25 °C	1.0
Pdc Tj = 20°C	2.54 kW
EER Tj = 20°C	8.47
Cdc Tj = 20 °C	1.0
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	571 kWh

Model ERGA08EVA / EHVH08S18E6V

Model name	ERGA08EVA / EHVH08S18E6V
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}	125 %
COP	3.10
Heating up time	1:34 h:min
Standby power input	28.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	238 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	7.50 kW	7.50 kW
El input	1.63 kW	2.78 kW
COP	4.60	2.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	179 %	128 %
Prated	8.00 kW	7.50 kW
SCOP	4.56	3.27

Tbiv	-8 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.00 kW	5.90 kW
COP Tj = -7°C	2.77	1.98
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.20 kW	4.10 kW
COP Tj = +2°C	4.35	3.18
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	3.30 kW	3.00 kW
COP Tj = +7°C	6.49	4.54
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	3.90 kW	3.70 kW
COP Tj = 12°C	8.52	6.16
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	7.50 kW	6.40 kW
COP Tj = Tbiv	2.66	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.90 kW	4.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.43
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	35 °C	55 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.10 kW	3.00 kW
Annual energy consumption Qhe	3625 kWh	4731 kWh

Model ERGA08EVA / EHVH08S18E9W

Model name	ERGA08EVA / EHVH08S18E9W
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}	125 %
COP	3.10
Heating up time	1:34 h:min
Standby power input	28.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	238 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	7.50 kW	7.50 kW
El input	1.63 kW	2.78 kW
COP	4.60	2.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	179 %	128 %
Prated	8.00 kW	7.50 kW
SCOP	4.56	3.27

Tbiv	-8 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.00 kW	5.90 kW
COP Tj = -7°C	2.77	1.98
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.20 kW	4.10 kW
COP Tj = +2°C	4.35	3.18
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	3.30 kW	3.00 kW
COP Tj = +7°C	6.49	4.54
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	3.90 kW	3.70 kW
COP Tj = 12°C	8.52	6.16
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	7.50 kW	6.40 kW
COP Tj = Tbiv	2.66	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.90 kW	4.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.43
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	35 °C	55 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.10 kW	3.00 kW
Annual energy consumption Qhe	3625 kWh	4731 kWh

Model ERGA08EVA / EHVH08SU18E6V

Model name	ERGA08EVA / EHVH08SU18E6V
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}	125 %
COP	3.10
Heating up time	1:34 h:min
Standby power input	28.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	238 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	7.50 kW	7.50 kW
El input	1.63 kW	2.78 kW
COP	4.60	2.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	179 %	128 %
Prated	8.00 kW	7.50 kW
SCOP	4.56	3.27

Tbiv	-8 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.00 kW	5.90 kW
COP Tj = -7°C	2.77	1.98
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.20 kW	4.10 kW
COP Tj = +2°C	4.35	3.18
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	3.30 kW	3.00 kW
COP Tj = +7°C	6.49	4.54
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	3.90 kW	3.70 kW
COP Tj = 12°C	8.52	6.16
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	7.50 kW	6.40 kW
COP Tj = Tbiv	2.66	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.90 kW	4.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.43
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	35 °C	55 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.10 kW	3.00 kW
Annual energy consumption Qhe	3625 kWh	4731 kWh