Subtype DAIKIN ALTHERMA 3 R F 3.5KW

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 3.5KW
Registration number	011-1W0198
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1 kg
Certification Date	27.03.2020
Testing basis	European KEYMARK Scheme for Heat Pumps Rev.10

Model ERLA03DV / EHFH03S18D3V

Model name	ERLA03DV / EHFH03S18D3V
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	110 %
COP	2.67
Heating up time	1:40 h:min
Standby power input	19 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	240 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	3.59 kW	3.53 kW
El input	0.72 kW	1.21 kW
COP	5	2.94

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4	
EER	3.6	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	173 %	126 %
Prated	3.5 kW	3.5 kW
SCOP	4.4	3.2
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.3 kW	3.2 kW
COP Tj = -7°C	3.03	2.21
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	2 kW	1.9 kW
COP Tj = +2°C	4.47	3.28
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	1.4 kW	1.2 kW
COP Tj = +7°C	6.18	4.16
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	1.7 kW	1.6 kW
COP Tj = 12°C	8.3	6.26
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	3.6 kW	3.5 kW
COP Tj = Tbiv	2.72	1.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.6 kW	3.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	1.76
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	22 W	22 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1643 kWh	2237 kWh

Model ERLA03DV / EHFH03S18D3V + cooling kit

Model name	ERLA03DV / EHFH03S18D3V + cooling kit
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	110 %
COP	2.67
Heating up time	1:40 h:min
Standby power input	19 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	240 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	3.59 kW	3.53 kW
El input	0.72 kW	1.21 kW
COP	5	2.94

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	1.17 kW	
Cooling capacity	3.49	
EER	3.03	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature

Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	173 %	126 %
Prated	3.5 kW	3.5 kW
SCOP	4.4	3.2
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.3 kW	3.2 kW
COP Tj = -7°C	3.03	2.21
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	2 kW	1.9 kW
COP Tj = +2°C	4.47	3.28
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	1.4 kW	1.2 kW
COP Tj = +7°C	6.18	4.16
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	1.7 kW	1.6 kW
COP Tj = 12°C	8.3	6.26
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	3.6 kW	3.5 kW
COP Tj = Tbiv	2.72	1.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.6 kW	3.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	1.76
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	22 W	22 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1643 kWh	2237 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	3.5 kW	
SEER	4.41	
Pdc Tj = 35°C	3.49 kW	
EER Tj = 35°C	3.03	
Pdc Tj = 30°C	2.66 kW	
EER Tj = 30°C	4.21	

Cdc Tj = 30 °C	1
Pdc Tj = 25°C	1.73 kW
EER Tj = 25°C	5.11
Cdc Tj = 25 °C	1
Pdc Tj = 20°C	1.38 kW
EER Tj = 20°C	6.79
Cdc Tj = 20 °C	1
Poff	11 W
PTO	22 W
PSB	11 W
PCK	11 W
Annual energy consumption Qce	476 kWh

Model ERLA03DV / EHFZ03S18D3V

Model name	ERLA03DV / EHFZ03S18D3V
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	110 %
COP	2.67
Heating up time	1:40 h:min
Standby power input	19 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	240 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	3.59 kW	3.53 kW
El input	0.72 kW	1.21 kW
COP	5	2.94

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4	
EER	3.6	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	173 %	126 %
Prated	3.5 kW	3.5 kW
SCOP	4.4	3.2
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.3 kW	3.2 kW
COP Tj = -7°C	3.03	2.21
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	2 kW	1.9 kW
COP Tj = +2°C	4.47	3.28
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	1.4 kW	1.2 kW
COP Tj = +7°C	6.18	4.16
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	1.7 kW	1.6 kW
COP Tj = 12°C	8.3	6.26
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	3.6 kW	3.5 kW
COP Tj = Tbiv	2.72	1.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.6 kW	3.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	1.76
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	22 W	22 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1643 kWh	2237 kWh

Model ERLA03DV / EHFZ03S18D3V + cooling kit

Model name	ERLA03DV / EHFZ03S18D3V + cooling kit
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	110 %
COP	2.67
Heating up time	1:40 h:min
Standby power input	19 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	240 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	3.59 kW	3.53 kW
El input	0.72 kW	1.21 kW
COP	5	2.94

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	1.17 kW	
Cooling capacity	3.49	
EER	3.03	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature

Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	173 %	126 %
Prated	3.5 kW	3.5 kW
SCOP	4.4	3.2
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.3 kW	3.2 kW
COP Tj = -7°C	3.03	2.21
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	2 kW	1.9 kW
COP Tj = +2°C	4.47	3.28
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	1.4 kW	1.2 kW
COP Tj = +7°C	6.18	4.16
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	1.7 kW	1.6 kW
COP Tj = 12°C	8.3	6.26
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	3.6 kW	3.5 kW
COP Tj = Tbiv	2.72	1.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.6 kW	3.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	1.76
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	22 W	22 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1643 kWh	2237 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	3.5 kW	
SEER	4.41	
Pdc Tj = 35°C	3.49 kW	
EER Tj = 35°C	3.03	
Pdc Tj = 30°C	2.66 kW	
EER Tj = 30°C	4.21	

Cdc Tj = 30 °C	1
Pdc Tj = 25°C	1.73 kW
EER Tj = 25°C	5.11
Cdc Tj = 25 °C	1
Pdc Tj = 20°C	1.38 kW
EER Tj = 20°C	6.79
Cdc Tj = 20 °C	1
Poff	11 W
PTO	22 W
PSB	11 W
PCK	11 W
Annual energy consumption Qce	476 kWh