This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	DAIKIN ALTHERMA 3 M 16kW	Reg. No.	011-1W0426
Certificate Holder			
Name	DAIKIN Europe N.V.		
Address	Zandvoordestraat 300	Zip	B-8400
City	Oostende	Country	Belgium
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	Danish Technological Institute (DTI)		
Subtype title	DAIKIN ALTHERMA 3 M 16kW		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	3.8 kg		
Certification Date	27.10.2020		
Testing basis	HP KEYMARK certification scheme rules rev. 7		

Model: EBLA16D(3)V3

General Data	
Power supply	1x230V 50Hz

Warmer Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	246 %	172 %
Prated	12.00 kW	12.10 kW
SCOP	6.23	4.38
Tbiv	2 °C	3 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.90 kW	9.80 kW
COP Tj = +2°C	3.30	2.17
Cdh	1.00	1.00
Pdh Tj = +7°C	8.10 kW	7.60 kW
COP Tj = +7°C	5.64	3.83
Cdh	1.00	1.00
Pdh Tj = 12°C	5.20 kW	5.00 kW
COP Tj = 12°C	7.73	5.69
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.90 kW	11.00 kW

COP Tj = Tbiv	3.30	2.40
Pdh Tj = TOL	11.90 kW	9.80 kW
COP Tj = TOL	3.30	2.17
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	0.00 kW	2.27 kW
Annual energy consumption Qhe	2573 kWh	3690 kWh

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	62 dB(A)	62 dB(A)

Average Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	185 %	132 %
Prated	12.00 kW	12.00 kW

SCOP	4.69	3.37
Tbiv	-10 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.20 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh		1.00
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh	1.00	1.00
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh	1.00	1.00
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	8.82	6.60
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.76 kW	10.10 kW
COP Tj = Tbiv	2.48	2.13
Pdh Tj = TOL	11.76 kW	7.95 kW
COP Tj = TOL	2.48	1.67
WTOL	35 °C	55 °C
Poff	23 W	23 W

PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	0.00 kW	4.10 kW
Annual energy consumption Qhe	5281 kWh	7359 kWh

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	62 dB(A)	62 dB(A)

Cooling

EN 14511-2	
	+7°C/+12°C
El input	4.58 kW
Indoor water flow rate	2.41 m³/h
Cooling capacity	14.01
EER	3.06

EN 14825

	+7°C/+12°C
Pdesignc	14.00 kW
SEER	5.59
Pdc Tj = 35°C	14.00 kW
EER Tj = 35°C	3.06
Pdc Tj = 30°C	10.80 kW
EER Tj = 30°C	4.41
Cdc	1.0
Pdc Tj = 25°C	6.90 kW
EER Tj = 25°C	6.56
Cdc	1.0
Pdc Tj = 20°C	5.90 kW
EER Tj = 20°C	8.51
Cdc	1.0
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1500 kWh

Heating

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75
Indoor water flow rate	2.75 m³/h	1.92 m³/h

Model: EBLA16D(3)W1

General Data	
Power supply	3x400V 50Hz

Warmer Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	246 %	172 %
Prated	12.00 kW	12.10 kW
SCOP	6.23	4.38
Tbiv	2 °C	3 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.90 kW	9.80 kW
COP Tj = +2°C	3.30	2.17
Cdh	1.00	1.00
Pdh Tj = +7°C	8.10 kW	7.60 kW
COP Tj = +7°C	5.64	3.83
Cdh	1.00	1.00
Pdh Tj = 12°C	5.20 kW	5.00 kW
COP Tj = 12°C	7.73	5.69
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.90 kW	11.00 kW

COP Tj = Tbiv	3.30	2.40
Pdh Tj = TOL	11.90 kW	9.80 kW
COP Tj = TOL	3.30	2.17
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	0.00 kW	2.27 kW
Annual energy consumption Qhe	2573 kWh	3690 kWh

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	62 dB(A)	62 dB(A)

Average Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	185 %	132 %
Prated	12.00 kW	12.00 kW

SCOP	4.69	3.37
Tbiv	-10 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.20 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh		1.00
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh	1.00	1.00
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh	1.00	1.00
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	8.82	6.60
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.76 kW	10.10 kW
COP Tj = Tbiv	2.48	2.13
Pdh Tj = TOL	11.76 kW	7.95 kW
COP Tj = TOL	2.48	1.67
WTOL	35 °C	55 °C
Poff	23 W	23 W

PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	0.00 kW	4.10 kW
Annual energy consumption Qhe	5281 kWh	7359 kWh

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	62 dB(A)	62 dB(A)

Cooling

EN 14511-2	
	+7°C/+12°C
El input	4.58 kW
Indoor water flow rate	2.41 m³/h
Cooling capacity	14.01
EER	3.06

EN 14825

	+7°C/+12°C
Pdesignc	14.00 kW
SEER	5.59
Pdc Tj = 35°C	14.00 kW
EER Tj = 35°C	3.06
Pdc Tj = 30°C	10.80 kW
EER Tj = 30°C	4.41
Cdc	1.0
Pdc Tj = 25°C	6.90 kW
EER Tj = 25°C	6.56
Cdc	1.0
Pdc Tj = 20°C	5.90 kW
EER Tj = 20°C	8.51
Cdc	1.0
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1500 kWh

Heating

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75
Indoor water flow rate	2.75 m^3/h	1.92 m^3/h

Model: EDLA16D(3)V3

General Data	
Power supply	1x230V 50Hz

Warmer Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	237 %	168 %
Prated	12.00 kW	12.10 kW
SCOP	5.99	4.26
Tbiv	2 °C	3 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.90 kW	9.80 kW
COP Tj = +2°C	3.30	2.17
Cdh	1.00	1.00
Pdh Tj = +7°C	8.10 kW	7.60 kW
COP Tj = +7°C	5.64	3.83
Cdh	1.00	1.00
Pdh Tj = 12°C	5.20 kW	5.00 kW
COP Tj = 12°C	7.73	5.69
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.90 kW	11.00 kW

COP Tj = Tbiv	3.30	2.40
Pdh Tj = TOL	11.90 kW	9.80 kW
COP Tj = TOL	3.30	2.17
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	0.00 kW	2.27 kW
Annual energy consumption Qhe	2675 kWh	3792 kWh

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	62 dB(A)	62 dB(A)

Average Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	182 %	130 %
Prated	12.00 kW	12.00 kW

SCOP	4.62	3.33
Tbiv	-10 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.20 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh		1.00
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh	1.00	1.00
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh	1.00	1.00
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	8.82	6.60
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.76 kW	10.10 kW
COP Tj = Tbiv	2.48	2.13
Pdh Tj = TOL	11.76 kW	7.95 kW
COP Tj = TOL	2.48	1.67
WTOL	35 °C	55 °C
Poff	23 W	23 W

PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	0.00 kW	4.10 kW
Annual energy consumption Qhe	5366 kWh	7444 kWh

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	62 dB(A)	62 dB(A)

Cooling

EN 14511-2	
	+7°C/+12°C
El input	4.58 kW
Indoor water flow rate	2.41 m³/h
Cooling capacity	14.01
EER	3.06

EN 14825

	+7°C/+12°C
Pdesignc	14.00 kW
SEER	5.59
Pdc Tj = 35°C	14.00 kW
EER Tj = 35°C	3.06
Pdc Tj = 30°C	10.80 kW
EER Tj = 30°C	4.41
Cdc	1.0
Pdc Tj = 25°C	6.90 kW
EER Tj = 25°C	6.56
Cdc	1.0
Pdc Tj = 20°C	5.90 kW
EER Tj = 20°C	8.51
Cdc	1.0
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1500 kWh

Heating

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75
Indoor water flow rate	2.75 m³/h	1.92 m³/h

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COP Tj = +2°C	3.30	2.17
Cdh	1.00	1.00
Pdh Tj = +7°C	8.10 kW	7.60 kW
COP Tj = +7°C	5.64	3.83
Cdh	1.00	1.00
Pdh Tj = 12°C	5.20 kW	5.00 kW
COP Tj = 12°C	7.73	5.69
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.90 kW	11.00 kW

COP Tj = Tbiv	3.30	2.40
Pdh Tj = TOL	11.90 kW	9.80 kW
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WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	0.00 kW	2.27 kW
Annual energy consumption Qhe	2675 kWh	3792 kWh

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	62 dB(A)	62 dB(A)

Average Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	182 %	130 %
Prated	12.00 kW	12.00 kW

SCOP	4.62	3.33
Tbiv	-10 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.20 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh		1.00
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh	1.00	1.00
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh	1.00	1.00
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COP Tj = 12°C	8.82	6.60
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Pdh Tj = Tbiv	11.76 kW	10.10 kW
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Pdh Tj = TOL	11.76 kW	7.95 kW
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WTOL	35 °C	55 °C
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PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	0.00 kW	4.10 kW
Annual energy consumption Qhe	5366 kWh	7444 kWh

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	62 dB(A)	62 dB(A)

Cooling

EN 14511-2	
	+7°C/+12°C
El input	4.58 kW
Indoor water flow rate	2.41 m³/h
Cooling capacity	14.01
EER	3.06

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	+7°C/+12°C
Pdesignc	14.00 kW
SEER	5.59
Pdc Tj = 35°C	14.00 kW
EER Tj = 35°C	3.06
Pdc Tj = 30°C	10.80 kW
EER Tj = 30°C	4.41
Cdc	1.0
Pdc Tj = 25°C	6.90 kW
EER Tj = 25°C	6.56
Cdc	1.0
Pdc Tj = 20°C	5.90 kW
EER Tj = 20°C	8.51
Cdc	1.0
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1500 kWh

Heating

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75
Indoor water flow rate	2.75 m³/h	1.92 m³/h