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Summary of	DAIKIN ALTHERMA 3 H HT 18kW (500L)	Reg. No.	011-1W0364
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		
Subtype title	DAIKIN ALTHERMA 3 H HT 18kW (500L)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	4.2 kg		
Certification Date	07.02.2020		

Model: EPRA18DV3 / ETSH16P50D

Configure model	
Model name	EPRA18DV3 / ETSH16P50D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
COP	5.00	3.01

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

Cooling

This information was generated by the HP KEYMARK database on 23 Jun 2022

EN 14511-2

	+7°C/+12°C
El input	3.31 kW
Cooling capacity	8.86
EER	2.68

EN 14825

This information was generated by the HP KEYMARK database on 23 Jun 2022

	+7°C/+12°C
P _{designc}	8.8 kW
SEER	4.17
P _{dc} T _j = 35°C	8.86 kW
EER T _j = 35°C	2.68
P _{dc} T _j = 30°C	6.61 kW
EER T _j = 30°C	3.72
C _{dc}	0.99
P _{dc} T _j = 25°C	5.12 kW
EER T _j = 25°C	4.68
C _{dc}	0.98
P _{dc} T _j = 20°C	5.31 kW
EER T _j = 20°C	5.81
C _{dc}	0.98
P _{off}	21 W
PTO	41 W
PSB	21 W
PCK	0 W
Annual energy consumption Q _{ce}	1266 kWh

Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	177 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.51	3.58
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1.0	1.0

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Pdh Tj = 12°C	6.0 kW	6.2 kW
COP Tj = 12°C	7.40	5.72
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.1 kW	12.2 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.1 kW	12.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
PTO	41 W	41 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	0.0 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	115 %
COP	2.75
Heating up time	1:44 h:min
Standby power input	51.0 W
Reference hot water temperature	47.0 °C
Mixed water at 40°C	237.2 l

Model: EPRA18DW1 / ETSH16P50D

Configure model	
Model name	EPRA18DW1 / ETSH16P50D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.47 kW
COP	5.00	2.93

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

Cooling

This information was generated by the HP KEYMARK database on 23 Jun 2022

EN 14511-2

	+7°C/+12°C
El input	3.31 kW
Cooling capacity	8.86
EER	2.68

EN 14825

This information was generated by the HP KEYMARK database on 23 Jun 2022

	+7°C/+12°C
P _{designc}	8.8 kW
SEER	4.07
P _{dc} T _j = 35°C	8.86 kW
EER T _j = 35°C	2.68
P _{dc} T _j = 30°C	6.61 kW
EER T _j = 30°C	3.72
C _{dc}	0.98
P _{dc} T _j = 25°C	5.12 kW
EER T _j = 25°C	4.68
C _{dc}	0.97
P _{dc} T _j = 20°C	5.31 kW
EER T _j = 20°C	5.81
C _{dc}	0.97
P _{off}	31 W
PTO	33 W
PSB	42 W
PCK	0 W
Annual energy consumption Q _{ce}	1296 kWh

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	186 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.71	3.57
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	11.1 kW
COP Tj = -7°C	2.97	2.43
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	10.7 kW	12.5 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.1 kW	12.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
PTO	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0.0 kW
Annual energy consumption Qhe	5479 kWh	7236 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.67
Heating up time	1:44 h:min
Standby power input	51.0 W
Reference hot water temperature	47.0 °C
Mixed water at 40°C	237.2 l

Model: EPRA18DV3 / ETSHB16P50D

Configure model	
Model name	EPRA18DV3 / ETSHB16P50D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
COP	5.00	3.01

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

Cooling

EN 14511-2

	+7°C/+12°C
El input	3.31 kW
Cooling capacity	8.86
EER	2.68

EN 14825

This information was generated by the HP KEYMARK database on 23 Jun 2022

	+7°C/+12°C
P _{designc}	8.8 kW
SEER	4.17
P _{dc} T _j = 35°C	8.86 kW
EER T _j = 35°C	2.68
P _{dc} T _j = 30°C	6.61 kW
EER T _j = 30°C	3.72
C _{dc}	0.99
P _{dc} T _j = 25°C	5.12 kW
EER T _j = 25°C	4.68
C _{dc}	0.98
P _{dc} T _j = 20°C	5.31 kW
EER T _j = 20°C	5.81
C _{dc}	0.98
P _{off}	21 W
PTO	41 W
PSB	21 W
PCK	0 W
Annual energy consumption Q _{ce}	1266 kWh

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	177 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.51	3.58
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = 12°C	6.0 kW	6.2 kW
COP Tj = 12°C	7.40	5.72
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.1 kW	12.2 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.1 kW	12.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
PTO	41 W	41 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	0.0 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.58
Heating up time	1:44 h:min
Standby power input	57.6 W
Reference hot water temperature	48.0 °C
Mixed water at 40°C	211.0 l

Model: EPRA18DW1 / ETSHB16P50D

Configure model	
Model name	EPRA18DW1 / ETSHB16P50D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.47 kW
COP	5.00	2.93

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

Cooling

This information was generated by the HP KEYMARK database on 23 Jun 2022

EN 14511-2

	+7°C/+12°C
El input	3.31 kW
Cooling capacity	8.86
EER	2.68

EN 14825

This information was generated by the HP KEYMARK database on 23 Jun 2022

	+7°C/+12°C
P _{designc}	8.8 kW
SEER	4.07
P _{dc} T _j = 35°C	8.86 kW
EER T _j = 35°C	2.68
P _{dc} T _j = 30°C	6.61 kW
EER T _j = 30°C	3.72
C _{dc}	0.98
P _{dc} T _j = 25°C	5.12 kW
EER T _j = 25°C	4.68
C _{dc}	0.97
P _{dc} T _j = 20°C	5.31 kW
EER T _j = 20°C	5.81
C _{dc}	0.97
P _{off}	31 W
PTO	33 W
PSB	42 W
PCK	0 W
Annual energy consumption Q _{ce}	1296 kWh

Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	186 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.71	3.57
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	11.1 kW
COP Tj = -7°C	2.97	2.43
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	10.7 kW	12.5 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.1 kW	12.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
PTO	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0.0 kW
Annual energy consumption Qhe	5479 kWh	7236 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	115 %
COP	2.75
Heating up time	1:44 h:min
Standby power input	57.1 W
Reference hot water temperature	47.0 °C
Mixed water at 40°C	215.7 l

Model: EPRA18DV3 / ETSX16P50D

Configure model

Model name	EPRA18DV3 / ETSX16P50D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
COP	5.00	3.01

EN 14511-4

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

Cooling

EN 14511-2

	+7°C/+12°C
El input	3.31 kW
Cooling capacity	8.86
EER	2.68

EN 14825

This information was generated by the HP KEYMARK database on 23 Jun 2022

	+7°C/+12°C
P _{designc}	8.8 kW
SEER	4.17
P _{dc} T _j = 35°C	8.86 kW
EER T _j = 35°C	2.68
P _{dc} T _j = 30°C	6.61 kW
EER T _j = 30°C	3.72
C _{dc}	0.99
P _{dc} T _j = 25°C	5.12 kW
EER T _j = 25°C	4.68
C _{dc}	0.98
P _{dc} T _j = 20°C	5.31 kW
EER T _j = 20°C	5.81
C _{dc}	0.98
P _{off}	21 W
PTO	41 W
PSB	21 W
PCK	0 W
Annual energy consumption Q _{ce}	1266 kWh

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	180 %	142 %
Prated	12.5 kW	12.5 kW
SCOP	4.57	3.62
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = 12°C	6.0 kW	6.2 kW
COP Tj = 12°C	7.40	5.72
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.1 kW	12.2 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.1 kW	12.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
PTO	41 W	41 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	0.0 kW
Annual energy consumption Qhe	5649 kWh	7134 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	115 %
COP	2.75
Heating up time	1:44 h:min
Standby power input	51.0 W
Reference hot water temperature	47.0 °C
Mixed water at 40°C	237.2 l

Model: EPRA18DW1 / ETSX16P50D

Configure model	
Model name	EPRA18DW1 / ETSX16P50D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.47 kW
COP	5.00	2.93

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

Cooling

EN 14511-2

	+7°C/+12°C
El input	3.31 kW
Cooling capacity	8.86
EER	2.68

EN 14825

This information was generated by the HP KEYMARK database on 23 Jun 2022

	+7°C/+12°C
P _{designc}	8.8 kW
SEER	4.07
P _{dc} T _j = 35°C	8.86 kW
EER T _j = 35°C	2.68
P _{dc} T _j = 30°C	6.61 kW
EER T _j = 30°C	3.72
C _{dc}	0.98
P _{dc} T _j = 25°C	5.12 kW
EER T _j = 25°C	4.68
C _{dc}	0.97
P _{dc} T _j = 20°C	5.31 kW
EER T _j = 20°C	5.81
C _{dc}	0.97
P _{off}	31 W
PTO	33 W
PSB	42 W
PCK	0 W
Annual energy consumption Q _{ce}	1296 kWh

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	190 %	142 %
Prated	12.5 kW	12.5 kW
SCOP	4.81	3.63
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	11.1 kW
COP Tj = -7°C	2.97	2.43
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	10.7 kW	12.5 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.1 kW	12.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
PTO	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0.0 kW
Annual energy consumption Qhe	5366 kWh	7122 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.67
Heating up time	1:44 h:min
Standby power input	51.0 W
Reference hot water temperature	47.0 °C
Mixed water at 40°C	237.2 l

Model: EPRA18DV3 / ETSXB16P50D

Configure model	
Model name	EPRA18DV3 / ETSXB16P50D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
COP	5.00	3.01

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

Cooling

EN 14511-2

	+7°C/+12°C
El input	3.31 kW
Cooling capacity	8.86
EER	2.68

EN 14825

This information was generated by the HP KEYMARK database on 23 Jun 2022

	+7°C/+12°C
P _{designc}	8.8 kW
SEER	4.17
P _{dc} T _j = 35°C	8.86 kW
EER T _j = 35°C	2.68
P _{dc} T _j = 30°C	6.61 kW
EER T _j = 30°C	3.72
C _{dc}	0.99
P _{dc} T _j = 25°C	5.12 kW
EER T _j = 25°C	4.68
C _{dc}	0.98
P _{dc} T _j = 20°C	5.31 kW
EER T _j = 20°C	5.81
C _{dc}	0.98
P _{off}	21 W
PTO	41 W
PSB	21 W
PCK	0 W
Annual energy consumption Q _{ce}	1266 kWh

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	180 %	142 %
Prated	12.5 kW	12.5 kW
SCOP	4.57	3.62
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = 12°C	6.0 kW	6.2 kW
COP Tj = 12°C	7.40	5.72
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.1 kW	12.2 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.1 kW	12.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
PTO	41 W	41 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	0.0 kW
Annual energy consumption Qhe	5649 kWh	7134 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.58
Heating up time	1:44 h:min
Standby power input	57.6 W
Reference hot water temperature	48.0 °C
Mixed water at 40°C	211.0 l

Model: EPRA18DW1 / ETSXB16P50D

Configure model	
Model name	EPRA18DW1 / ETSXB16P50D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.47 kW
COP	5.00	2.93

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

Cooling

EN 14511-2

	+7°C/+12°C
El input	3.31 kW
Cooling capacity	8.86
EER	2.68

EN 14825

This information was generated by the HP KEYMARK database on 23 Jun 2022

	+7°C/+12°C
P _{designc}	8.8 kW
SEER	4.07
P _{dc} T _j = 35°C	8.86 kW
EER T _j = 35°C	2.68
P _{dc} T _j = 30°C	6.61 kW
EER T _j = 30°C	3.72
C _{dc}	0.98
P _{dc} T _j = 25°C	5.12 kW
EER T _j = 25°C	4.68
C _{dc}	0.97
P _{dc} T _j = 20°C	5.31 kW
EER T _j = 20°C	5.81
C _{dc}	0.97
P _{off}	31 W
PTO	33 W
PSB	42 W
PCK	0 W
Annual energy consumption Q _{ce}	1296 kWh

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	190 %	142 %
Prated	12.5 kW	12.5 kW
SCOP	4.81	3.63
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	11.1 kW
COP Tj = -7°C	2.97	2.43
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	10.7 kW	12.5 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.1 kW	12.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
PTO	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0.0 kW
Annual energy consumption Qhe	5366 kWh	7122 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	115 %
COP	2.75
Heating up time	1:44 h:min
Standby power input	57.1 W
Reference hot water temperature	47.0 °C
Mixed water at 40°C	215.7 l