

Subtype DAIKIN ALTHERMA 3 H HT 16kW (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 H HT 16kW (500L)
Registration number	011-1W0360
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	4.2 kg
Certification Date	07.02.2020

Model EPRA16DV3 / ETSH16P50D

Model name	EPRA16DV3 / ETSH16P50D
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 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

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	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
COP	5.00	3.01

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.93 kW	
Cooling capacity	7.88	
EER	2.69	

EN 12102-1 | Average Climate

	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 | Average Climate

	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
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

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.9 kW	
SEER	4.08	
Pdc Tj = 35°C	7.88 kW	
EER Tj = 35°C	2.69	
Pdc Tj = 30°C	5.92 kW	
EER Tj = 30°C	3.69	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	5.09 kW	
EER Tj = 25°C	4.63	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	5.13 kW	

EER $T_j = 20^{\circ}\text{C}$	5.61
Cdc $T_j = 20^{\circ}\text{C}$	0.98
P _{off}	21 W
PTO	41 W
PSB	21 W
PCK	0 W
Annual energy consumption Q _{ce}	1158 kWh

Model EPRA16DW1 / ETSH16P50D

Model name	EPRA16DW1 / ETSH16P50D
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 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

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	9.00 kW	7.24 kW
El input	1.80 kW	2.47 kW
COP	5.00	2.93

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.93 kW	
Cooling capacity	7.88	
EER	2.69	

EN 12102-1 | Average Climate

	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 | Average Climate

	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
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

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.9 kW	
SEER	3.98	
Pdc Tj = 35°C	7.88 kW	
EER Tj = 35°C	2.69	
Pdc Tj = 30°C	5.92 kW	
EER Tj = 30°C	3.69	
Cdc Tj = 30 °C	0.98	
Pdc Tj = 25°C	5.09 kW	
EER Tj = 25°C	4.63	
Cdc Tj = 25 °C	0.97	
Pdc Tj = 20°C	5.13 kW	

EER $T_j = 20^{\circ}\text{C}$	5.61
Cdc $T_j = 20^{\circ}\text{C}$	0.97
P _{off}	31 W
P _{TO}	33 W
P _{SB}	42 W
P _{CK}	0 W
Annual energy consumption Q _{ce}	1188 kWh

Model EPRA16DV3 / ETSHB16P50D

Model name	EPRA16DV3 / ETSHB16P50D
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 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

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	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
COP	5.00	3.01

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.93 kW	
Cooling capacity	7.88	
EER	2.69	

EN 12102-1 | Average Climate

	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 | Average Climate

	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
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

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.9 kW	
SEER	4.08	
Pdc Tj = 35°C	7.88 kW	
EER Tj = 35°C	2.69	
Pdc Tj = 30°C	5.92 kW	
EER Tj = 30°C	3.69	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	5.09 kW	
EER Tj = 25°C	4.63	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	5.13 kW	

EER $T_j = 20^{\circ}\text{C}$	5.61
Cdc $T_j = 20^{\circ}\text{C}$	0.98
P _{off}	21 W
PTO	41 W
PSB	21 W
PCK	0 W
Annual energy consumption Q _{ce}	1158 kWh

Model EPRA16DW1 / ETSHB16P50D

Model name	EPRA16DW1 / ETSHB16P50D
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 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

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	9.00 kW	7.24 kW
El input	1.80 kW	2.47 kW
COP	5.00	2.93

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.93 kW	
Cooling capacity	7.88	
EER	2.69	

EN 12102-1 | Average Climate

	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 | Average Climate

	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
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

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.9 kW	
SEER	3.98	
Pdc Tj = 35°C	7.88 kW	
EER Tj = 35°C	2.69	
Pdc Tj = 30°C	5.92 kW	
EER Tj = 30°C	3.69	
Cdc Tj = 30 °C	0.98	
Pdc Tj = 25°C	5.09 kW	
EER Tj = 25°C	4.63	
Cdc Tj = 25 °C	0.97	
Pdc Tj = 20°C	5.13 kW	

EER $T_j = 20^{\circ}\text{C}$	5.61
Cdc $T_j = 20^{\circ}\text{C}$	0.97
P _{off}	31 W
P _{TO}	33 W
P _{SB}	42 W
P _{CK}	0 W
Annual energy consumption Q _{ce}	1188 kWh

Model EPRA16DV3 / ETSX16P50D

Model name	EPRA16DV3 / ETSX16P50D
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 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

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	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
COP	5.00	3.01

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.93 kW	
Cooling capacity	7.88	
EER	2.69	

EN 12102-1 | Average Climate

	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)
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EN 14825 | Average Climate

	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
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

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.9 kW	
SEER	4.08	
Pdc Tj = 35°C	7.88 kW	
EER Tj = 35°C	2.69	
Pdc Tj = 30°C	5.92 kW	
EER Tj = 30°C	3.69	
Cdc Tj = 30 °C	0.99	

Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc Tj = 25 °C	0.98
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc Tj = 20 °C	0.98
Poff	21 W
PTO	41 W
PSB	21 W
PCK	0 W
Annual energy consumption Qce	1158 kWh

Model EPRA16DW1 / ETSX16P50D

Model name	EPRA16DW1 / ETSX16P50D
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 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

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	9.00 kW	7.24 kW
El input	1.80 kW	2.47 kW
COP	5.00	2.93

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.93 kW	
Cooling capacity	7.88	
EER	2.69	

EN 12102-1 | Average Climate

	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 | Average Climate

	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
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

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.9 kW	
SEER	3.98	
Pdc Tj = 35°C	7.88 kW	
EER Tj = 35°C	2.69	
Pdc Tj = 30°C	5.92 kW	
EER Tj = 30°C	3.69	
Cdc Tj = 30 °C	0.98	

Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc Tj = 25 °C	0.97
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc Tj = 20 °C	0.97
Poff	31 W
PTO	33 W
PSB	42 W
PCK	0 W
Annual energy consumption Qce	1188 kWh

Model EPRA16DV3 / ETSXB16P50D

Model name	EPRA16DV3 / ETSXB16P50D
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 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

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	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
COP	5.00	3.01

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.93 kW	
Cooling capacity	7.88	
EER	2.69	

EN 12102-1 | Average Climate

	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)
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EN 14825 | Average Climate

	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
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

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.9 kW	
SEER	4.08	
Pdc Tj = 35°C	7.88 kW	
EER Tj = 35°C	2.69	
Pdc Tj = 30°C	5.92 kW	
EER Tj = 30°C	3.69	
Cdc Tj = 30 °C	0.99	

Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc Tj = 25 °C	0.98
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc Tj = 20 °C	0.98
Poff	21 W
PTO	41 W
PSB	21 W
PCK	0 W
Annual energy consumption Qce	1158 kWh

Model EPRA16DW1 / ETSXB16P50D

Model name	EPRA16DW1 / ETSXB16P50D
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 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

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	9.00 kW	7.24 kW
El input	1.80 kW	2.47 kW
COP	5.00	2.93

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.93 kW	
Cooling capacity	7.88	
EER	2.69	

EN 12102-1 | Average Climate

	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 | Average Climate

	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
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

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.9 kW	
SEER	3.98	
Pdc Tj = 35°C	7.88 kW	
EER Tj = 35°C	2.69	
Pdc Tj = 30°C	5.92 kW	
EER Tj = 30°C	3.69	
Cdc Tj = 30 °C	0.98	

Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc Tj = 25 °C	0.97
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc Tj = 20 °C	0.97
Poff	31 W
PTO	33 W
PSB	42 W
PCK	0 W
Annual energy consumption Qce	1188 kWh