Login

Summary of	DAIKIN ALTHERMA 3 H HT F 16KW (230L)	Reg. No.	011-1W0358
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 F 16KW (230L)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	4.2 kg		
Certification Date	07.02.2020		

Model: EPRA16DV3 / ETVH16S23D(6V/6VG/9W/9WG)

Configure model	
Model name	EPRA16DV3 / ETVH16S23D(6V/6VG/9W/9WG)
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 14511-4	
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	9 kW	7.24 kW
El input	1.80 kW	2.41 kW
COP	5	3.01

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 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	1.000	1.000
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1.000	1.000

Pdh Tj = 12°C	6 kW	6.2 kW
COP Tj = 12°C	7.4	5.72
Cdh Tj = +12 °C	1.000	1.000
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	n/a	
Supplementary Heater: PSUP	1.4 kW	0.3 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	108 %
COP	2.61
Heating up time	1:20 h:min
Standby power input	49.2 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

Model: EPRA16DW1 / ETVH16S23D(6V/6VG/9W/9WG)

Configure model	
Model name	EPRA16DW1 / ETVH16S23D(6V/6VG/9W/9WG)
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 14511-4	
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	9 kW	7.24 kW
El input	1.80 kW	2.47 kW
COP	5	2.93

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 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	1.000	1.000
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.000	1.000

Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.000	1.000
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	n/a	
Supplementary Heater: PSUP	0.4 kW	0 kW
Annual energy consumption Qhe	5479 kWh	7236 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
COP	2.55
Heating up time	1:20 h:min
Standby power input	58.5 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

Model: EPRA16DV3 / ETVX16S23D(6V/6VG/9W/9WG)

Configure model	
Model name	EPRA16DV3 / ETVX16S23D(6V/6VG/9W/9WG)
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 14511-4	
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	9 kW	7.24 kW
El input	1.80 kW	2.41 kW
COP	5	3.01

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 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	1.000	1.000
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1.000	1.000

Pdh Tj = 12°C	6 kW	6.2 kW
COP Tj = 12°C	7.4	5.72
Cdh Tj = +12 °C	1.000	1.000
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	n/a	
Supplementary Heater: PSUP	1.4 kW	0.3 kW
Annual energy consumption Qhe	5649 kWh	7134 kWh

Cooling

EN 14511-2

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

EN 14825

	+7°C/+12°C
Pdesignc	7.88 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	1
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	1
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	1
Poff	21 W
PTO	41 W
PSB	21 W
PCK	0 W
Annual energy consumption Qce	1158 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	108 %
COP	2.61
Heating up time	1:20 h:min
Standby power input	49.2 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

Model: EPRA16DW1 / ETVX16S23D(6V/6VG/9W/9WG)

Configure model	
Model name	EPRA16DW1 / ETVX16S23D(6V/6VG/9W/9WG)
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 14511-4	
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	9 kW	7.24 kW
El input	1.80 kW	2.47 kW
COP	5	2.93

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 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	1.000	1.000
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.000	1.000

Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.000	1.000
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	n/a	
Supplementary Heater: PSUP	0.4 kW	0 kW
Annual energy consumption Qhe	5366 kWh	7122 kWh

Cooling

EN 14511-2

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

EN 14825

	+7°C/+12°C
Pdesignc	7.88 kW
SEER	4.07
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	1
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	1
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	1
Poff	31 W
PTO	33 W
PSB	42 W
PCK	0 W
Annual energy consumption Qce	1188 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
COP	2.55
Heating up time	1:20 h:min
Standby power input	58.5 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

Model: EPRA16DV3 / ETVZ16S23D(6V/9W)

Configure model	
Model name	EPRA16DV3 / ETVZ16S23D(6V/9W)
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 14511-4	
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	9 kW	7.24 kW
El input	1.80 kW	2.41 kW
COP	5	3.01

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 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	1.000	1.000
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1.000	1.000

Pdh Tj = 12°C	6 kW	6.2 kW
COP Tj = 12°C	7.4	5.72
Cdh Tj = +12 °C	1.000	1.000
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	n/a	
Supplementary Heater: PSUP	1.4 kW	0.3 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	108 %
COP	2.61
Heating up time	1:20 h:min
Standby power input	49.2 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

Model: EPRA16DW1 / ETVZ16S23D(6V/9W)

Configure model	
Model name	EPRA16DW1 / ETVZ16S23D(6V/9W)
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 14511-4	
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	9 kW	7.24 kW
El input	1.80 kW	2.47 kW
COP	5	2.93

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 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	1.000	1.000
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.000	1.000

Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.000	1.000
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	n/a	
Supplementary Heater: PSUP	0.4 kW	0 kW
Annual energy consumption Qhe	5479 kWh	7236 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	107 %
COP	2.55
Heating up time	1:20 h:min
Standby power input	58.5 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

Model: EPRA16DV3 / ETVH16S23E(6V/9W)

Configure model	
Model name	EPRA16DV3 / ETVH16S23E(6V/9W)
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 14511-4	
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	9 kW	7.24 kW
El input	1.80 kW	2.41 kW
COP	5	3.01

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 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	1.000	1.000
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1.000	1.000

Pdh Tj = 12°C	6 kW	6.2 kW
COP Tj = 12°C	7.4	5.72
Cdh Tj = +12 °C	1.000	1.000
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	n/a	
Supplementary Heater: PSUP	1.4 kW	0.3 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	108 %
COP	2.61
Heating up time	1:20 h:min
Standby power input	49.2 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

Model: EPRA16DW1 / ETVH16S23E(6V/9W)

Configure model	
Model name	EPRA16DW1 / ETVH16S23E(6V/9W)
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 14511-4	
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	9 kW	7.24 kW
El input	1.80 kW	2.47 kW
COP	5	2.93

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
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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	1.000	1.000
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.000	1.000

Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.000	1.000
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	n/a	
Supplementary Heater: PSUP	0.4 kW	0 kW
Annual energy consumption Qhe	5479 kWh	7236 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	107 %
COP	2.55
Heating up time	1:20 h:min
Standby power input	58.5 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

Model: EPRA16DV3 / ETVX16S23E(6V/9W)

Configure model	
Model name	EPRA16DV3 / ETVX16S23E(6V/9W)
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 14511-4	
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	9 kW	7.24 kW
El input	1.80 kW	2.41 kW
COP	5	3.01

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 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	1.000	1.000
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1.000	1.000

Pdh Tj = 12°C	6 kW	6.2 kW
COP Tj = 12°C	7.4	5.72
Cdh Tj = +12 °C	1.000	1.000
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	n/a	
Supplementary Heater: PSUP	1.4 kW	0.3 kW
Annual energy consumption Qhe	5649 kWh	7134 kWh

Cooling

EN 14511-2

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

EN 14825

	+7°C/+12°C
Pdesignc	7.88 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	1
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	1
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	1
Poff	21 W
PTO	41 W
PSB	21 W
PCK	0 W
Annual energy consumption Qce	1158 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	108 %
COP	2.61
Heating up time	1:20 h:min
Standby power input	49.2 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

Model: EPRA16DW1 / ETVX16S23E(6V/9W)

Configure model	
Model name	EPRA16DW1 / ETVX16S23E(6V/9W)
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 14511-4	
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	9 kW	7.24 kW
El input	1.80 kW	2.47 kW
COP	5	2.93

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 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	1.000	1.000
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.000	1.000

Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.000	1.000
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	n/a	
Supplementary Heater: PSUP	0.4 kW	0 kW
Annual energy consumption Qhe	5366 kWh	7122 kWh

Cooling

EN 14511-2

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

EN 14825

	+7°C/+12°C
Pdesignc	7.88 kW
SEER	4.07
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	1
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	1
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	1
Poff	31 W
PTO	33 W
PSB	42 W
PCK	0 W
Annual energy consumption Qce	1188 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	107 %
COP	2.55
Heating up time	1:20 h:min
Standby power input	58.5 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

Model: EPRA16DV3 / ETVZ16S23E(6V/9W)

Configure model	
Model name	EPRA16DV3 / ETVZ16S23E(6V/9W)
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 14511-4	
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	9 kW	7.24 kW
El input	1.80 kW	2.41 kW
COP	5	3.01

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 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	1.000	1.000
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1.000	1.000

Pdh Tj = 12°C	6 kW	6.2 kW
COP Tj = 12°C	7.4	5.72
Cdh Tj = +12 °C	1.000	1.000
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	n/a	
Supplementary Heater: PSUP	1.4 kW	0.3 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	108 %
COP	2.61
Heating up time	1:20 h:min
Standby power input	49.2 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

Model: EPRA16DW1 / ETVZ16S23E(6V/9W)

Configure model	
Model name	EPRA16DW1 / ETVZ16S23E(6V/9W)
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 14511-4	
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	9 kW	7.24 kW
El input	1.80 kW	2.47 kW
COP	5	2.93

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 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	1.000	1.000
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.000	1.000

Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.000	1.000
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	n/a	
Supplementary Heater: PSUP	0.4 kW	0 kW
Annual energy consumption Qhe	5479 kWh	7236 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
COP	2.55
Heating up time	1:20 h:min
Standby power input	58.5 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

Model: EPRA16DV3 / ETVH16S23E(6V/9W) + cooling kit

Configure model	
Model name	EPRA16DV3 / ETVH16S23E(6V/9W) + cooling kit
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 14511-4	
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	9 kW	7.24 kW
El input	1.80 kW	2.41 kW
COP	5	3.01

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 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	1.000	1.000
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1.000	1.000

Pdh Tj = 12°C	6 kW	6.2 kW
COP Tj = 12°C	7.4	5.72
Cdh Tj = +12 °C	1.000	1.000
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	n/a	
Supplementary Heater: PSUP	1.4 kW	0.3 kW
Annual energy consumption Qhe	5649 kWh	7134 kWh

Cooling

EN 14511-2

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

EN 14825

	+7°C/+12°C
Pdesignc	7.88 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	1
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	1
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	1
Poff	21 W
PTO	41 W
PSB	21 W
PCK	0 W
Annual energy consumption Qce	1158 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	108 %
COP	2.61
Heating up time	1:20 h:min
Standby power input	49.2 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

Model: EPRA16DW1 / ETVH16S23E(6V/9W) + cooling kit

Configure model	
Model name	EPRA16DW1 / ETVH16S23E(6V/9W) + cooling kit
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	n/a

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	9 kW	7.24 kW
El input	1.80 kW	2.47 kW
COP	5	2.93

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 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	1.000	1.000
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.000	1.000

Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.000	1.000
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	n/a	
Supplementary Heater: PSUP	0.4 kW	0 kW
Annual energy consumption Qhe	5366 kWh	7122 kWh

Cooling

EN 14511-2

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

EN 14825

	+7°C/+12°C
Pdesignc	7.88 kW
SEER	4.07
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	1
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	1
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	1
Poff	31 W
PTO	33 W
PSB	42 W
PCK	0 W
Annual energy consumption Qce	1188 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
COP	2.55
Heating up time	1:20 h:min
Standby power input	58.5 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

Model: EPRA16DV3 / ETVH16SU23E6V

Configure model	
Model name	EPRA16DV3 / ETVH16SU23E6V
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 14511-4	
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	9 kW	7.24 kW
El input	1.80 kW	2.41 kW
COP	5	3.01

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 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	1.000	1.000
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1.000	1.000

Pdh Tj = 12°C	6 kW	6.2 kW
COP Tj = 12°C	7.4	5.72
Cdh Tj = +12 °C	1.000	1.000
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	n/a	
Supplementary Heater: PSUP	1.4 kW	0.3 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	108 %
COP	2.61
Heating up time	1:20 h:min
Standby power input	49.2 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

Model: EPRA16DW1 / ETVH16SU23E6V

Configure model	
Model name	EPRA16DW1 / ETVH16SU23E6V
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 14511-4	
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	9 kW	7.24 kW
El input	1.80 kW	2.47 kW
COP	5	2.93

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 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	1.000	1.000
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.000	1.000

Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.000	1.000
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	n/a	
Supplementary Heater: PSUP	0.4 kW	0 kW
Annual energy consumption Qhe	5479 kWh	7236 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
COP	2.55
Heating up time	1:20 h:min
Standby power input	58.5 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l