Subtype Vitocal 100-S/111-S | 12-16kW 230V

Certificate Holder	Viessmann Climate Solutions GmbH & Co. KG
Address	Viessmannstr. 1
ZIP	35107
City	Allendorf/Eder
Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Vitocal 100-S/111-S | 12-16kW 230V
Registration number	011-1W0403
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	2.5 kg
Certification Date	02.11.2020
Testing basis	HP KEYMARK certification scheme rules rev. 7

Model Vitocal 100-S AWB-M 101.A12	
Model name	Vitocal 100-S AWB-M 101.A12
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	
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	11.50 kW	9.86 kW
El input	2.45 kW	3.52 kW
COP	4.70	2.80

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	160 %	113 %
Prated	9.20 kW	8.90 kW
SCOP	4.08	2.90
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.15 kW	7.84 kW
COP Tj = -7°C	2.88	1.93
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.17 kW	5.54 kW
COP Tj = +2°C	3.93	2.76
Cdh Tj = +2 °C	0.99	0.99

Pdh Tj = +7°C	5.99 kW	9.25 kW
COP Tj = +7°C	5.31	3.89
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.44 kW	6.77 kW
COP Tj = 12°C	7.15	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.15 kW	7.84 kW
COP Tj = Tbiv	2.88	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.46 kW	7.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.75 kW	1.84 kW
Annual energy consumption Qhe	19044 kWh	18303 kWh

EN 14825 | Average Climate	
Pdesignh	8.90 kW
Backup Heater	0.00 kW

Model Vitocal 100-S AWB-M-E 101.A12	
Model name	Vitocal 100-S AWB-M-E 101.A12
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	
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	11.50 kW	9.86 kW
El input	2.45 kW	3.52 kW
COP	4.70	2.80

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	160 %	113 %
Prated	9.20 kW	8.90 kW
SCOP	4.08	2.90
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.15 kW	7.84 kW
COP Tj = -7°C	2.88	1.93
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.17 kW	5.54 kW
COP Tj = +2°C	3.93	2.76
Cdh Tj = +2 °C	0.99	0.99

Pdh Tj = +7°C	5.99 kW	9.25 kW
COP Tj = +7°C	5.31	3.89
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.44 kW	6.77 kW
COP Tj = 12°C	7.15	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.15 kW	7.84 kW
COP Tj = Tbiv	2.88	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.46 kW	7.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.75 kW	1.84 kW
Annual energy consumption Qhe	19044 kWh	18303 kWh

EN 14825 | Average Climate	
Pdesignh	8.90 kW
Backup Heater	0.00 kW

Model Vitocal 100-S AWB-M-E-AC 101.A12	
Model name	Vitocal 100-S AWB-M-E-AC 101.A12
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	
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	11.50 kW	9.86 kW
El input	2.45 kW	3.52 kW
COP	4.70	2.80

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	160 %	113 %
Prated	9.20 kW	8.90 kW
SCOP	4.08	2.90
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.15 kW	7.84 kW
COP Tj = -7°C	2.88	1.93
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.17 kW	5.54 kW
COP Tj = +2°C	3.93	2.76
Cdh Tj = +2 °C	0.99	0.99

Pdh Tj = +7°C	5.99 kW	9.25 kW
COP Tj = +7°C	5.31	3.89
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.44 kW	6.77 kW
COP Tj = 12°C	7.15	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.15 kW	7.84 kW
COP Tj = Tbiv	2.88	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.46 kW	7.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.75 kW	1.84 kW
Annual energy consumption Qhe	19044 kWh	18303 kWh

EN 14825 | Average Climate	
Pdesignh	8.90 kW
Backup Heater	0.00 kW

Model Vitocal 100-S AWB-M-E-AC 101.A12 F	
Model name	Vitocal 100-S AWB-M-E-AC 101.A12 F
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	
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	11.50 kW	9.86 kW
El input	2.45 kW	3.52 kW
COP	4.70	2.80

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	160 %	113 %
Prated	9.20 kW	8.90 kW
SCOP	4.08	2.90
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.15 kW	7.84 kW
COP Tj = -7°C	2.88	1.93
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.17 kW	5.54 kW
COP Tj = +2°C	3.93	2.76
Cdh Tj = +2 °C	0.99	0.99

Pdh Tj = +7°C	5.99 kW	9.25 kW
COP Tj = +7°C	5.31	3.89
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.44 kW	6.77 kW
COP Tj = 12°C	7.15	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.15 kW	7.84 kW
COP Tj = Tbiv	2.88	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.46 kW	7.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.75 kW	1.84 kW
Annual energy consumption Qhe	19044 kWh	18303 kWh

EN 14825 | Average Climate	
Pdesignh	8.90 kW
Backup Heater	0.00 kW

Model Vitocal 111-S AWBT-M-AC 111.A12	
Model name	Vitocal 111-S AWBT-M-AC 111.A12
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	114 %
COP	2.55
Heating up time	0:58 h:min
Standby power input	40.4 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	290 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	11.50 kW	9.86 kW
El input	2.45 kW	3.52 kW
COP	4.70	2.80

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	160 %	113 %

Prated	9.20 kW	8.90 kW
SCOP	4.08	2.90
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.15 kW	7.84 kW
COP Tj = -7°C	2.88	1.93
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.17 kW	5.54 kW
COP Tj = +2°C	3.93	2.76
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.99 kW	9.25 kW
COP Tj = +7°C	5.31	3.89
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.44 kW	6.77 kW
COP Tj = 12°C	7.15	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.15 kW	7.84 kW
COP Tj = Tbiv	2.88	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.46 kW	7.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.75 kW	1.84 kW
Annual energy consumption Qhe	19044 kWh	18303 kWh

EN 14825 | Average Climate	
Pdesignh	8.90 kW
Backup Heater	0.00 kW

Model Vitocal 111-S AWBT-M-E 111.A12	
Model name	Vitocal 111-S AWBT-M-E 111.A12
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	114 %
COP	2.55
Heating up time	0:58 h:min
Standby power input	40.4 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	290 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	11.50 kW	9.86 kW
El input	2.45 kW	3.52 kW
COP	4.70	2.80

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	160 %	113 %

Prated	9.20 kW	8.90 kW
SCOP	4.08	2.90
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.15 kW	7.84 kW
COP Tj = -7°C	2.88	1.93
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.17 kW	5.54 kW
COP Tj = +2°C	3.93	2.76
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.99 kW	9.25 kW
COP Tj = +7°C	5.31	3.89
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.44 kW	6.77 kW
COP Tj = 12°C	7.15	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.15 kW	7.84 kW
COP Tj = Tbiv	2.88	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.46 kW	7.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.75 kW	1.84 kW
Annual energy consumption Qhe	19044 kWh	18303 kWh

EN 14825 | Average Climate	
Pdesignh	8.90 kW
Backup Heater	0.00 kW

Model Vitocal 111-S AWBT-M-E-AC 111.A12	
Model name	Vitocal 111-S AWBT-M-E-AC 111.A12
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	114 %
COP	2.75
Heating up time	0:58 h:min
Standby power input	40.4 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	290 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	11.50 kW	9.52 kW
El input	2.45 kW	3.51 kW
COP	4.70	2.71

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	160 %	113 %

Prated	9.20 kW	8.90 kW
SCOP	4.08	2.90
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.15 kW	7.84 kW
COP Tj = -7°C	2.88	1.93
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	6.17 kW	5.54 kW
COP Tj = +2°C	3.93	2.76
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.99 kW	9.25 kW
COP Tj = +7°C	5.31	3.97
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	7.44 kW	6.77 kW
COP Tj = 12°C	7.15	5.44
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.15 kW	7.84 kW
COP Tj = Tbiv	2.88	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.46 kW	7.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.75 kW	2.00 kW
Annual energy consumption Qhe	19044 kWh	18303 kWh

EN 14825 | Average Climate	
Pdesignh	8.90 kW
Backup Heater	0.00 kW

Model Vitocal 111-S AWBT-M-E-AC 111.A12 F	
Model name	Vitocal 111-S AWBT-M-E-AC 111.A12 F
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	114 %
COP	2.55
Heating up time	0:58 h:min
Standby power input	40.4 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	290 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	11.50 kW	9.86 kW
El input	2.45 kW	3.52 kW
COP	4.70	2.80

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	160 %	113 %

Prated	9.20 kW	8.90 kW
SCOP	4.08	2.90
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.15 kW	7.84 kW
COP Tj = -7°C	2.88	1.93
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.17 kW	5.54 kW
COP Tj = +2°C	3.93	2.76
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.99 kW	9.25 kW
COP Tj = +7°C	5.31	3.89
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.44 kW	6.77 kW
COP Tj = 12°C	7.15	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.15 kW	7.84 kW
COP Tj = Tbiv	2.88	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.46 kW	7.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.75 kW	1.84 kW
Annual energy consumption Qhe	19044 kWh	18303 kWh

EN 14825 | Average Climate	
Pdesignh	8.90 kW
Backup Heater	0.00 kW

Model Vitocal 100-S AWB-M 101.A14	
Model name	Vitocal 100-S AWB-M 101.A14
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	
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	13.50 kW	11.82 kW
El input	2.89 kW	4.23 kW
COP	4.67	2.80

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	160 %	117 %
Prated	9.90 kW	10.70 kW
SCOP	4.08	3.00
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.73 kW	9.44 kW
COP Tj = -7°C	2.86	2.05
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.34 kW	6.11 kW
COP Tj = +2°C	3.92	2.82
Cdh Tj = +2 °C	0.99	0.99

Pdh Tj = +7°C	5.99 kW	9.33 kW
COP Tj = +7°C	5.31	4.03
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.44 kW	6.77 kW
COP Tj = 12°C	7.15	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.73 kW	9.44 kW
COP Tj = Tbiv	2.86	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.46 kW	6.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.41 kW	3.86 kW
Annual energy consumption Qhe	20384 kWh	22040 kWh

EN 14825 | Average Climate	
Pdesignh	10.70 kW
Backup Heater	0.00 kW

Model Vitocal 100-S AWB-M-E 101.A14	
Model name	Vitocal 100-S AWB-M-E 101.A14
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	
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	13.50 kW	11.82 kW
El input	2.89 kW	4.23 kW
COP	4.67	2.80

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	160 %	117 %
Prated	9.90 kW	10.70 kW
SCOP	4.08	3.00
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.73 kW	9.44 kW
COP Tj = -7°C	2.86	2.05
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.34 kW	6.11 kW
COP Tj = +2°C	3.92	2.82
Cdh Tj = +2 °C	0.99	0.99

Pdh Tj = +7°C	5.99 kW	9.33 kW
COP Tj = +7°C	5.31	4.03
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.44 kW	6.77 kW
COP Tj = 12°C	7.15	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.73 kW	9.44 kW
COP Tj = Tbiv	2.86	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.46 kW	6.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.41 kW	3.86 kW
Annual energy consumption Qhe	20384 kWh	22040 kWh

EN 14825 | Average Climate	
Pdesignh	10.70 kW
Backup Heater	0.00 kW

Model Vitocal 100-S AWB-M-E-AC 101.A14	
Model name	Vitocal 100-S AWB-M-E-AC 101.A14
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	
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	13.50 kW	11.82 kW
El input	2.89 kW	4.23 kW
COP	4.67	2.80

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	160 %	117 %
Prated	9.90 kW	10.70 kW
SCOP	4.08	3.00
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.73 kW	9.44 kW
COP Tj = -7°C	2.86	2.05
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.34 kW	6.11 kW
COP Tj = +2°C	3.92	2.82
Cdh Tj = +2 °C	0.99	0.99

Pdh Tj = +7°C	5.99 kW	9.33 kW
COP Tj = +7°C	5.31	4.03
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.44 kW	6.77 kW
COP Tj = 12°C	7.15	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.73 kW	9.44 kW
COP Tj = Tbiv	2.86	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.46 kW	6.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.41 kW	3.86 kW
Annual energy consumption Qhe	20384 kWh	22040 kWh

EN 14825 | Average Climate	
Pdesignh	10.70 kW
Backup Heater	0.00 kW

Model Vitocal 100-S AWB-M-E-AC 101.A14 F	
Model name	Vitocal 100-S AWB-M-E-AC 101.A14 F
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	

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	13.50 kW	11.82 kW
El input	2.89 kW	4.23 kW
COP	4.67	2.80

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	160 %	117 %
Prated	9.90 kW	10.70 kW
SCOP	4.08	3.00
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.73 kW	9.44 kW
COP Tj = -7°C	2.86	2.05
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.34 kW	6.11 kW
COP Tj = +2°C	3.92	2.82
Cdh Tj = +2 °C	0.99	0.99

Pdh Tj = +7°C	5.99 kW	9.33 kW
COP Tj = +7°C	5.31	4.03
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.44 kW	6.77 kW
COP Tj = 12°C	7.15	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.73 kW	9.44 kW
COP Tj = Tbiv	2.86	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.46 kW	6.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.41 kW	3.86 kW
Annual energy consumption Qhe	20384 kWh	22040 kWh

EN 14825 | Average Climate	
Pdesignh	10.70 kW
Backup Heater	0.00 kW

Model Vitocal 111-S AWBT-M-AC 111.A14	
Model name	Vitocal 111-S AWBT-M-AC 111.A14
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	114 %
COP	2.55
Heating up time	0:58 h:min
Standby power input	40.4 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	290 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	13.50 kW	11.82 kW
El input	2.89 kW	4.23 kW
COP	4.67	2.80

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	160 %	117 %

Prated	9.90 kW	10.70 kW
SCOP	4.08	3.00
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.73 kW	9.44 kW
COP Tj = -7°C	2.86	2.05
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	6.34 kW	6.11 kW
COP Tj = +2°C	3.92	2.82
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.99 kW	9.33 kW
COP Tj = +7°C	5.31	4.03
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	7.44 kW	6.77 kW
COP Tj = 12°C	7.15	5.44
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.73 kW	9.44 kW
COP Tj = Tbiv	2.86	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.46 kW	6.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.50 kW	3.90 kW
Annual energy consumption Qhe	20384 kWh	22040 kWh

EN 14825 | Average Climate	
Pdesignh	10.70 kW
Backup Heater	0.00 kW

Model Vitocal 111-S AWBT-M-E 111.A14	
Model name	Vitocal 111-S AWBT-M-E 111.A14
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	114 %
COP	2.55
Heating up time	0:58 h:min
Standby power input	40.4 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	290 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	13.50 kW	11.82 kW
El input	2.89 kW	4.23 kW
COP	4.67	2.80

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	160 %	117 %

Prated	9.90 kW	10.70 kW
SCOP	4.08	3.00
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.73 kW	9.44 kW
COP Tj = -7°C	2.86	2.05
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.34 kW	6.11 kW
COP Tj = +2°C	3.92	2.82
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.99 kW	9.33 kW
COP Tj = +7°C	5.31	4.03
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.44 kW	6.77 kW
COP Tj = 12°C	7.15	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.73 kW	9.44 kW
COP Tj = Tbiv	2.86	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.46 kW	6.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.41 kW	3.86 kW
Annual energy consumption Qhe	20384 kWh	22040 kWh

EN 14825 | Average Climate	
Pdesignh	10.70 kW
Backup Heater	0.00 kW

Model Vitocal 111-S AWBT-M-E-AC 111.A14	
Model name	Vitocal 111-S AWBT-M-E-AC 111.A14
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	114 %
COP	2.75
Heating up time	0:58 h:min
Standby power input	40.4 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	290 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	9.34 kW	11.14 kW
El input	2.35 kW	4.09 kW
COP	3.97	2.72

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	160 %	117 %

Prated	9.90 kW	10.70 kW
SCOP	4.08	3.00
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.73 kW	9.44 kW
COP Tj = -7°C	2.86	2.05
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.34 kW	6.11 kW
COP Tj = +2°C	3.92	2.82
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.99 kW	9.33 kW
COP Tj = +7°C	5.31	4.03
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.44 kW	6.77 kW
COP Tj = 12°C	7.15	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.73 kW	9.44 kW
COP Tj = Tbiv	2.86	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.46 kW	6.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.41 kW	3.86 kW
Annual energy consumption Qhe	20384 kWh	22040 kWh

EN 14825 | Average Climate	
Pdesignh	10.70 kW
Backup Heater	0.00 kW

Model Vitocal 111-S AWBT-M-E-AC 111.A14 F	
Model name	Vitocal 111-S AWBT-M-E-AC 111.A14 F
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	114 %
COP	2.55
Heating up time	0:58 h:min
Standby power input	40.4 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	290 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	13.50 kW	11.82 kW
El input	2.89 kW	4.23 kW
COP	4.67	2.80

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	160 %	117 %

Prated	9.90 kW	10.70 kW
SCOP	4.08	3.00
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.73 kW	9.44 kW
COP Tj = -7°C	2.86	2.05
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.34 kW	6.11 kW
COP Tj = +2°C	3.92	2.82
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.99 kW	9.33 kW
COP Tj = +7°C	5.31	4.03
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.44 kW	6.77 kW
COP Tj = 12°C	7.15	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.73 kW	9.44 kW
COP Tj = Tbiv	2.86	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.46 kW	6.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.41 kW	3.86 kW
Annual energy consumption Qhe	20384 kWh	22040 kWh

EN 14825 | Average Climate	
Pdesignh	10.70 kW
Backup Heater	0.00 kW

Model Vitocal 100-S AWB-M 101.A16	
Model name	Vitocal 100-S AWB-M 101.A16
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	
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	15.50 kW	13.43 kW
El input	3.42 kW	4.94 kW
COP	4.53	2.72

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	155 %	119 %
Prated	10.00 kW	11.80 kW
SCOP	3.95	3.05
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.85 kW	10.45 kW
COP Tj = -7°C	2.54	2.05
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.60 kW	6.65 kW
COP Tj = +2°C	3.76	2.86
Cdh Tj = +2 °C	0.99	0.99

Pdh Tj = +7°C	5.93 kW	9.42 kW
COP Tj = +7°C	5.40	4.13
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	14.93 kW	6.77 kW
COP Tj = 12°C	6.49	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.85 kW	10.45 kW
COP Tj = Tbiv	2.54	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.44 kW	7.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	7.15	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.56 kW	4.00 kW
Annual energy consumption Qhe	24394 kWh	24394 kWh

EN 14825 | Average Climate	
Pdesignh	11.80 kW
Backup Heater	0.00 kW

Model Vitocal 100-S AWB-M-E 101.A16	
Model name	Vitocal 100-S AWB-M-E 101.A16
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	
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	15.50 kW	13.43 kW
El input	3.42 kW	4.94 kW
COP	4.53	2.72

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	155 %	119 %
Prated	10.00 kW	11.80 kW
SCOP	3.95	3.05
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.85 kW	10.45 kW
COP Tj = -7°C	2.54	2.05
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.60 kW	6.65 kW
COP Tj = +2°C	3.76	2.86
Cdh Tj = +2 °C	0.99	0.99

Pdh Tj = +7°C	5.93 kW	9.42 kW
COP Tj = +7°C	5.40	4.13
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	14.93 kW	6.77 kW
COP Tj = 12°C	6.49	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.85 kW	10.45 kW
COP Tj = Tbiv	2.54	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.44 kW	7.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	7.15	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.56 kW	4.00 kW
Annual energy consumption Qhe	24394 kWh	24394 kWh

EN 14825 | Average Climate	
Pdesignh	11.80 kW
Backup Heater	0.00 kW

Model Vitocal 100-S AWB-M-E-AC 101.A16	
Model name	Vitocal 100-S AWB-M-E-AC 101.A16
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	
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	15.50 kW	13.43 kW
El input	3.42 kW	4.94 kW
COP	4.53	2.72

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	155 %	119 %
Prated	10.00 kW	11.80 kW
SCOP	3.95	3.05
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.85 kW	10.45 kW
COP Tj = -7°C	2.54	2.05
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.60 kW	6.65 kW
COP Tj = +2°C	3.76	2.86
Cdh Tj = +2 °C	0.99	0.99

Pdh Tj = +7°C	5.93 kW	9.42 kW
COP Tj = +7°C	5.40	4.13
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	14.93 kW	6.77 kW
COP Tj = 12°C	6.49	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.85 kW	10.45 kW
COP Tj = Tbiv	2.54	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.44 kW	7.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	7.15	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.56 kW	4.00 kW
Annual energy consumption Qhe	24394 kWh	24394 kWh

EN 14825 | Average Climate	
Pdesignh	11.80 kW
Backup Heater	0.00 kW

Model Vitocal 100-S AWB-M-E-AC 101.A16 F	
Model name	Vitocal 100-S AWB-M-E-AC 101.A16 F
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	
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	15.50 kW	13.43 kW
El input	3.42 kW	4.94 kW
COP	4.53	2.72

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	155 %	119 %
Prated	10.00 kW	11.80 kW
SCOP	3.95	3.05
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.85 kW	10.45 kW
COP Tj = -7°C	2.54	2.05
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.60 kW	6.65 kW
COP Tj = +2°C	3.76	2.86
Cdh Tj = +2 °C	0.99	0.99

Pdh Tj = +7°C	5.93 kW	9.42 kW
COP Tj = +7°C	5.40	4.13
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	14.93 kW	6.77 kW
COP Tj = 12°C	6.49	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.85 kW	10.45 kW
COP Tj = Tbiv	2.54	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.44 kW	7.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	7.15	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.56 kW	4.00 kW
Annual energy consumption Qhe	24394 kWh	24394 kWh

EN 14825 | Average Climate	
Pdesignh	11.80 kW
Backup Heater	0.00 kW

Model Vitocal 111-S AWBT-M-AC 111.A16	
Model name	Vitocal 111-S AWBT-M-AC 111.A16
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	114 %
COP	2.55
Heating up time	0:58 h:min
Standby power input	40.4 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	290 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	15.50 kW	13.43 kW
El input	3.42 kW	4.94 kW
COP	4.53	2.72

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	155 %	119 %

Prated	10.00 kW	11.80 kW
SCOP	3.95	3.05
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.85 kW	10.45 kW
COP Tj = -7°C	2.54	2.05
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.60 kW	6.65 kW
COP Tj = +2°C	3.76	2.86
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.93 kW	9.42 kW
COP Tj = +7°C	5.40	4.13
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	14.93 kW	6.77 kW
COP Tj = 12°C	6.49	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.85 kW	10.45 kW
COP Tj = Tbiv	2.54	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.44 kW	7.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	7.15	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.56 kW	4.00 kW
Annual energy consumption Qhe	24394 kWh	24394 kWh

EN 14825 | Average Climate	
Pdesignh	11.80 kW
Backup Heater	0.00 kW

Model Vitocal 111-S AWBT-M-E 111.A16	
Model name	Vitocal 111-S AWBT-M-E 111.A16
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	114 %
COP	2.55
Heating up time	0:58 h:min
Standby power input	40.4 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	290 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	15.50 kW	13.43 kW
El input	3.42 kW	4.94 kW
COP	4.53	2.72

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	155 %	119 %

Prated	10.00 kW	11.80 kW
SCOP	3.95	3.05
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.85 kW	10.45 kW
COP Tj = -7°C	2.54	2.05
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.60 kW	6.65 kW
COP Tj = +2°C	3.76	2.86
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.93 kW	9.42 kW
COP Tj = +7°C	5.40	4.13
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	14.93 kW	6.77 kW
COP Tj = 12°C	6.49	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.85 kW	10.45 kW
COP Tj = Tbiv	2.54	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.44 kW	7.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	7.15	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.56 kW	4.00 kW
Annual energy consumption Qhe	24394 kWh	24394 kWh

EN 14825 | Average Climate	
Pdesignh	11.80 kW
Backup Heater	0.00 kW

Model Vitocal 111-S AWBT-M-E-AC 111.A16	
Model name	Vitocal 111-S AWBT-M-E-AC 111.A16
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	114 %
COP	2.75
Heating up time	0:58 h:min
Standby power input	40.4 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	290 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	15.50 kW	13.09 kW
El input	3.42 kW	4.77 kW
COP	4.53	2.75

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	155 %	119 %

Prated	10.00 kW	11.80 kW
SCOP	3.95	3.05
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.85 kW	10.45 kW
COP Tj = -7°C	2.54	2.05
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.60 kW	6.65 kW
COP Tj = +2°C	3.76	2.86
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.93 kW	9.42 kW
COP Tj = +7°C	5.40	4.13
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	14.93 kW	6.77 kW
COP Tj = 12°C	6.49	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.85 kW	10.45 kW
COP Tj = Tbiv	2.54	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.44 kW	7.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	7.15	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.56 kW	4.00 kW
Annual energy consumption Qhe	24394 kWh	24394 kWh

EN 14825 | Average Climate	
Pdesignh	11.80 kW
Backup Heater	0.00 kW

Model Vitocal 111-S AWBT-M-E-AC 111.A16 F	
Model name	Vitocal 111-S AWBT-M-E-AC 111.A16 F
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	114 %
COP	2.55
Heating up time	0:58 h:min
Standby power input	40.4 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	290 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	15.50 kW	13.43 kW
El input	3.42 kW	4.94 kW
COP	4.53	2.72

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	155 %	119 %

Prated	10.00 kW	11.80 kW
SCOP	3.95	3.05
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.85 kW	10.45 kW
COP Tj = -7°C	2.54	2.05
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.60 kW	6.65 kW
COP Tj = +2°C	3.76	2.86
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.93 kW	9.42 kW
COP Tj = +7°C	5.40	4.13
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	14.93 kW	6.77 kW
COP Tj = 12°C	6.49	5.44
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	8.85 kW	10.45 kW
COP Tj = Tbiv	2.54	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.44 kW	7.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	7.15	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.56 kW	4.00 kW
Annual energy consumption Qhe	24394 kWh	24394 kWh

EN 14825 | Average Climate	
Pdesignh	11.80 kW
Backup Heater	0.00 kW