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Summary of	Vitocal 100-S/111-S 4-6kW 230V	Reg. No.	011-1W0401
Certificate Holder			
Name	Viessmann Wärmepumpen GmbH		
Address	Viessmannstr. 1	Zip	35107
City	Allendorf/Eder	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	Vitocal 100-S/111-S 4-6kW 230V		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	0.95 kg		
Certification Date	02.11.2020		
Testing basis	HP KEYMARK certification scheme rules rev. 7		

Model: Vitocal 100-S AWB-M 101.B04

Configure model			
Model name	Vitocal 100-S AWB-M 101.B04		
Application	Heating (medium temp)		
Units	Indoor + Outdoor		
Climate Zone	Colder Climate + Warmer Climate		
Reversibility	No		
Cooling mode application (optional) n/a			

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2				
	Low temperature	Medium temperature		
Heat output	4.08 kW	4.36 kW		
El input	0.80 kW	1.80 kW		
СОР	5.10	2.42		

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

Warmer Climate



EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	41 dB(A)	41 dB(A)		
Sound power level outdoor 62 dB(A) 62 dB(A)				

EN 14825			
	Low temperature	Medium temperature	
η_{s}	197 %	150 %	
Prated	4.90 kW	4.10 kW	
SCOP	5.01	3.83	
Tbiv	2 °C	2 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = +2°C	4.94 kW	4.08 kW	
COP Tj = +2°C	3.04	1.98	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = $+7^{\circ}$ C	3.07 kW	2.95 kW	
$COP Tj = +7^{\circ}C$	5.03	3.25	
Cdh Tj = +7 °C	0.99	0.99	
Pdh Tj = 12°C	3.57 kW	3.31 kW	
COP Tj = 12°C	5.89	5.18	
Cdh Tj = +12 °C	0.99	0.99	





Pdh Tj = Tbiv	4.94 kW	4.08 kW
Pull IJ = Ibiv	4.94 KVV	4.00 KW
COP Tj = Tbiv	3.04	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.94 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	o w	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6552 kWh	5450 kWh

Colder Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	41 dB(A)	41 dB(A)		
Sound power level outdoor 62 dB(A) 62 dB(A)				

EN 14825





This information was gener	Low temperature	Medium temperature
η_{S}	135 %	86 %
Prated	4.40 kW	2.80 kW
SCOP	3.46	2.22
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	2.76 kW	1.85 kW
COP Tj = -7 °C	2.91	1.72
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2$ °C	2.23 kW	2.09 kW
$COPTj = +2^{\circ}C$	4.44	2.72
Cdh Tj = $+2$ °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	3.14 kW	2.88 kW
$COP Tj = +7^{\circ}C$	6.20	4.76
Cdh Tj = $+7$ °C	0.99	0.99
Pdh Tj = 12°C	3.53 kW	3.27 kW
COP Tj = 12°C	5.46	5.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.62 kW	2.30 kW
COP Tj = Tbiv	1.65	1.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.30 kW	1.06 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.21	0.32
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	o w	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.43 kW	2.82 kW
Annual energy consumption Qhe	10662 kWh	6791 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825			
		Low temperature	Medium temperature
Pdesignh	3.70 kW		
η_{s}	175 %	126 %	





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Prated	4.00 kW	3.70 kW
SCOP	4.45	3.22
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.51 kW	3.31 kW
COP Tj = -7°C	2.84	1.89
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.45 kW	2.65 kW
$COP Tj = +2^{\circ}C$	2.84	3.18
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.74 kW
COP Tj = +7°C	5.97	4.36
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.78	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.51 kW	3.31 kW
COP Tj = Tbiv	2.84	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.83 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.49



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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	o w	o w
PSB	o w	o w
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.14 kW	0.88 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	8202 kWh	7700 kWh



Model: Vitocal 100-S AWB-M-E 101.B04

Configure model		
Model name	Vitocal 100-S AWB-M-E 101.B04	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.08 kW	4.36 kW	
El input	0.80 kW	1.80 kW	
СОР	5.10	2.42	

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

Warmer Climate



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	197 %	150 %
Prated	4.90 kW	4.10 kW
SCOP	5.01	3.83
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	4.94 kW	4.08 kW
COP Tj = +2°C	3.04	1.98
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.07 kW	2.95 kW
COP Tj = +7°C	5.03	3.25
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.57 kW	3.31 kW
COP Tj = 12°C	5.89	5.18
Cdh Tj = +12 °C	0.99	0.99



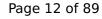


Pdh Tj = Tbiv	4.94 kW	4.08 kW
COP Tj = Tbiv	3.04	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.94 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6552 kWh	5450 kWh

Colder Climate

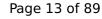
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825





	Low temperature	Medium temperature
η_{s}	135 %	86 %
Prated	4.40 kW	2.80 kW
SCOP	3.46	2.22
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	2.76 kW	1.85 kW
COP Tj = -7°C	2.91	1.72
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.23 kW	2.09 kW
$COPTj = +2^{\circ}C$	4.44	2.72
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.88 kW
$COPTj = +7^{\circ}C$	6.20	4.76
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.53 kW	3.27 kW
COP Tj = 12°C	5.46	5.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.62 kW	2.30 kW
COP Tj = Tbiv	1.65	1.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.30 kW	1.06 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.21	0.32
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	o w	o w
PSB	o w	o w
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.43 kW	2.82 kW
Annual energy consumption Qhe	10662 kWh	6791 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825			
		Low temperature	Medium temperature
Pdesignh	3.70 kW		-
η _s	175 %	126 %	





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Prated	4.00 kW	3.70 kW
SCOP	4.45	3.22
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.51 kW	3.31 kW
COP Tj = -7°C	2.84	1.89
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.45 kW	2.65 kW
$COP Tj = +2^{\circ}C$	2.84	3.18
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.74 kW
COP Tj = +7°C	5.97	4.36
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.78	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.51 kW	3.31 kW
COP Tj = Tbiv	2.84	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.83 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.49



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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	o w	o w
PSB	o w	o w
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.14 kW	0.88 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	8202 kWh	7700 kWh



Model: Vitocal 100-S AWB-M-E-AC 101.B04

Configure model		
Model name	Vitocal 100-S AWB-M-E-AC 101.B04	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.08 kW	4.36 kW
El input	0.80 kW	1.80 kW
СОР	5.10	2.42

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

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	197 %	150 %
Prated	4.90 kW	4.10 kW
SCOP	5.01	3.83
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	4.94 kW	4.08 kW
COP Tj = +2°C	3.04	1.98
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	3.07 kW	2.95 kW
$COP Tj = +7^{\circ}C$	5.03	3.25
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.57 kW	3.31 kW
COP Tj = 12°C	5.89	5.18
Cdh Tj = +12 °C	0.99	0.99



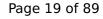


Pdh Tj = Tbiv	4.94 kW	4.08 kW
Pull IJ = Ibiv	4.94 KVV	4.00 KW
COP Tj = Tbiv	3.04	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.94 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	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	0.00 kW	0.00 kW
Annual energy consumption Qhe	6552 kWh	5450 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825





	Low temperature	Medium temperature
η_{s}	135 %	86 %
Prated	4.40 kW	2.80 kW
SCOP	3.46	2.22
Tbiv	-15 °C	-15 °C
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Pdh Tj = +7°C	3.14 kW	2.88 kW
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.21	0.32
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
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РТО	o w	o w
PSB	o w	o w
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.43 kW	2.82 kW
Annual energy consumption Qhe	10662 kWh	6791 kWh

Average Climate

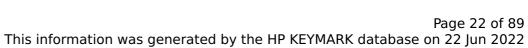
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825			
		Low temperature	Medium temperature
Pdesignh	3.70 kW		
η_s	175 %	126 %	





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Prated	4.00 kW	3.70 kW
SCOP	4.45	3.22
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.51 kW	3.31 kW
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Pdh Tj = +2°C	2.45 kW	2.65 kW
COP Tj = +2°C	2.84	3.18
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Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.51 kW	3.31 kW
COP Tj = Tbiv	2.84	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.83 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.49



rOL 55 °C 55 °C ff 15 W 15 W O 0 0 W 0 W B 0 W 0 W K 0 W 0 W pplementary Heater: Type of energy input Electricity pplementary Heater: PSUP 0.14 kW 0.88 kW ckup Heater 0.00 kW			
ff 15 W 15 W O 0 W 0 W B 0 W 0 W K 0 W 0 W pplementary Heater: Type of energy input Electricity Electricity pplementary Heater: PSUP 0.14 kW 0.88 kW ckup Heater 0.00 kW nual energy consumption Qhe 8202 7700 kWh	Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
O O O W O W B O W O W K O W O W pplementary Heater: Type of energy input Electricity Electricity pplementary Heater: PSUP O.14 kW O.88 kW ckup Heater O.00 kW nual energy consumption Qhe 8202 7700 kWh	WTOL	55 °C	55 °C
B 0 W 0 W K 0 W 0 W pplementary Heater: Type of energy input Electricity Electricity pplementary Heater: PSUP 0.14 kW 0.88 kW ckup Heater 0.00 kW nual energy consumption Qhe 8202 7700 kWh	Poff	15 W	15 W
K 0 W 0 W pplementary Heater: Type of energy input Electricity Electricity pplementary Heater: PSUP 0.14 kW 0.88 kW ckup Heater 0.00 kW nual energy consumption Qhe 8202 7700 kWh	РТО	o w	0 W
pplementary Heater: Type of energy input Electricity Description of Electricity Des	PSB	o w	o w
pplementary Heater: PSUP 0.14 kW 0.88 kW ckup Heater 0.00 kW nual energy consumption Qhe 8202 7700 kWh	PCK	o w	o w
ckup Heater 0.00 kW nual energy consumption Qhe 8202 7700 kWh	Supplementary Heater: Type of energy input	Electricity	Electricity
nual energy consumption Qhe 8202 7700 kWh	Supplementary Heater: PSUP	0.14 kW	0.88 kW
	Backup Heater	0.00 kW	
	Annual energy consumption Qhe		7700 kWh

CEN heat pump KEYMARK

Model: Vitocal 100-S AWB-M-E-AC 101.B04 F

Configure model		
Model name	Vitocal 100-S AWB-M-E-AC 101.B04 F	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

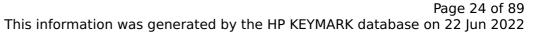
	General Data	
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.08 kW	4.36 kW	
El input	0.80 kW	1.80 kW	
СОР	5.10	2.42	

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

Warmer Climate





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η_{s}	197 %	150 %	
Prated	4.90 kW	4.10 kW	
SCOP	5.01	3.83	
Tbiv	2 °C	2 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = +2°C	4.94 kW	4.08 kW	
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Pdh Tj = +7°C	3.07 kW	2.95 kW	
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Cdh Tj = +12 °C	0.99	0.99	





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Pull IJ = Ibiv	4.94 KVV	4.00 KW
COP Tj = Tbiv	3.04	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.94 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	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	0.00 kW	0.00 kW
Annual energy consumption Qhe	6552 kWh	5450 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825





This information was gener	Low temperature	Medium temperature
η_{S}	135 %	86 %
Prated	4.40 kW	2.80 kW
SCOP	3.46	2.22
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	2.76 kW	1.85 kW
COP Tj = -7 °C	2.91	1.72
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2$ °C	2.23 kW	2.09 kW
$COPTj = +2^{\circ}C$	4.44	2.72
Cdh Tj = $+2$ °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	3.14 kW	2.88 kW
$COP Tj = +7^{\circ}C$	6.20	4.76
Cdh Tj = $+7$ °C	0.99	0.99
Pdh Tj = 12°C	3.53 kW	3.27 kW
COP Tj = 12°C	5.46	5.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.62 kW	2.30 kW
COP Tj = Tbiv	1.65	1.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.30 kW	1.06 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.21	0.32
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	o w	o w
PSB	o w	o w
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.43 kW	2.82 kW
Annual energy consumption Qhe	10662 kWh	6791 kWh

Average Climate

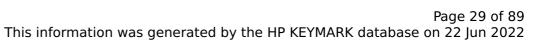
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825			
		Low temperature	Medium temperature
Pdesignh	3.70 kW		-
η _s	175 %	126 %	





	o generacea s	y che in relimita
Prated	4.00 kW	3.70 kW
SCOP	4.45	3.22
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.51 kW	3.31 kW
COP Tj = -7°C	2.84	1.89
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.45 kW	2.65 kW
$COP Tj = +2^{\circ}C$	2.84	3.18
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.74 kW
COP Tj = +7°C	5.97	4.36
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.78	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.51 kW	3.31 kW
COP Tj = Tbiv	2.84	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.83 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.49





Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < 0.99 0.99 Tdesignh	
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 Electric	city
Supplementary Heater: PSUP 0.14 kW 0.88 kV	W
Backup Heater 0.00 kW	
Annual energy consumption Qhe 8202 kWh 7700 k	kWh



Model: Vitocal 111-S AWBT-M-AC 111.B04

Configure model		
Model name	Vitocal 111-S AWBT-M-AC 111.B04	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

	EN 14511-2	
	Low temperature	Medium temperature
Heat output	4.08 kW	4.36 kW
El input	0.80 kW	1.80 kW
СОР	5.10	2.42

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

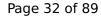
Average Climate





	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN	14825		
		Low temperature	Medium temperature
Pdesignh	3.70 kW		!
η_{s}	175 %	126 %	
Prated	4.00 kW	3.70 kW	-
SCOP	4.45	3.22	-
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	3.51 kW	3.31 kW	
$COP Tj = -7^{\circ}C$	2.84	1.89	
Cdh Tj = -7 °C	0.99	0.99	
Pdh Tj = $+2$ °C	2.45 kW	2.65 kW	
COP Tj = +2°C	2.84	3.18	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = $+7^{\circ}$ C	3.14 kW	2.74 kW	
$COP Tj = +7^{\circ}C$	5.97	4.36	

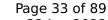




		,
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.78	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.51 kW	3.31 kW
COP Tj = Tbiv	2.84	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.83 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.49
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
PTO	o w	0 W
PSB	o w	0 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.14 kW	0.88 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	8202 kWh	7700 kWh
	•	

Domestic Hot Water (DHW)

Average Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	3.32
Heating up time	2:15 h:min
Standby power input	25.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	296.1



Model: Vitocal 111-S AWBT-M-E 111.B04

Со	nfigure model
Model name	Vitocal 111-S AWBT-M-E 111.B04
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

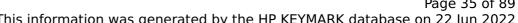
	General Data		
Power supply	1x230V 50Hz		

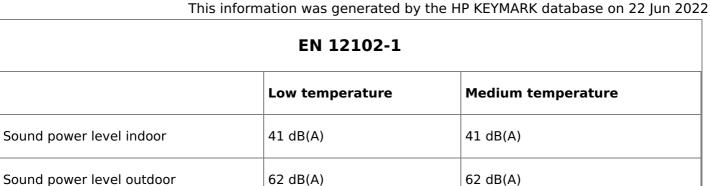
Heating

	EN 14511-2	
	Low temperature	Medium temperature
Heat output	4.08 kW	4.36 kW
El input	0.80 kW	1.80 kW
СОР	5.10	2.42

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

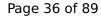
Average Climate





CEN heat pump

EN	14825		
		Low temperature	Medium temperature
Pdesignh	3.70 kW		!
η_{s}	175 %	126 %	
Prated	4.00 kW	3.70 kW	-
SCOP	4.45	3.22	-
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	3.51 kW	3.31 kW	
$COP Tj = -7^{\circ}C$	2.84	1.89	
Cdh Tj = -7 °C	0.99	0.99	
Pdh Tj = $+2$ °C	2.45 kW	2.65 kW	
COP Tj = +2°C	2.84	3.18	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = $+7^{\circ}$ C	3.14 kW	2.74 kW	
$COP Tj = +7^{\circ}C$	5.97	4.36	

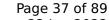




		-
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.78	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.51 kW	3.31 kW
COP Tj = Tbiv	2.84	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.83 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.49
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	o w	0 W
PSB	o w	0 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.14 kW	0.88 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	8202 kWh	7700 kWh

Domestic Hot Water (DHW)

Average Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.32	
Heating up time	2:15 h:min	
Standby power input	25.0 W	
Reference hot water temperature	53.4 °C	
Mixed water at 40°C	296.1	



Model: Vitocal 111-S AWBT-M-E-AC 111.B04

Configure model		
Model name Vitocal 111-S AWBT-M-E-AC 111.B04		
Application Heating + DHW + low temp		
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility No		
Cooling mode application (optional)	n/a	

General Data			
Power supply 1x230V 50Hz			

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.08 kW	4.36 kW	
El input	0.80 kW	1.80 kW	
СОР	5.10	2.42	

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 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

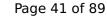
EN 14825		
	Low temperature	Medium temperature
3.70 kW		
175 %	126 %	
4.00 kW	3.70 kW	
4.45	3.22	
-7 °C	-7 °C	
-20 °C	-20 °C	
3.51 kW	3.31 kW	
2.84	1.89	
0.99	0.99	
2.45 kW	2.65 kW	
2.84	3.18	
0.99	0.99	
3.14 kW	2.74 kW	
5.97	4.36	
	3.70 kW 175 % 4.00 kW 4.45 -7 °C -20 °C 3.51 kW 2.84 0.99 2.45 kW 2.84 0.99 3.14 kW	Low temperature 3.70 kW 175 % 126 % 4.00 kW 3.70 kW 4.45 3.22 -7 °C -7 °C -20 °C -20 °C 3.51 kW 3.31 kW 2.84 1.89 0.99 0.99 2.45 kW 2.65 kW 2.84 3.18 0.99 0.99 3.14 kW 2.74 kW





Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.78	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.51 kW	3.31 kW
COP Tj = Tbiv	2.84	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.83 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.49
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	0 W	o w
PSB	0 W	o w
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.14 kW	0.88 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	8202 kWh	7700 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.32	
Heating up time	2:15 h:min	
Standby power input	25.2 W	
Reference hot water temperature	53.4 °C	
Mixed water at 40°C	296.1	



Model: Vitocal 100-S AWB-M 101.B06

Configure model		
Model name Vitocal 100-S AWB-M 101.B06		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data			
Power supply 1x230V 50Hz			

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	6.02 kW	4.36 kW	
El input	1.23 kW	1.80 kW	
СОР	4.90	2.42	

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

Warmer Climate



	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	225 %	156 %
Prated	5.70 kW	4.10 kW
SCOP	5.70	3.97
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	5.01 kW	4.08 kW
COP Tj = +2°C	4.30	1.98
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.28 kW	2.95 kW
COP Tj = +7°C	4.86	3.25
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.43 kW	3.31 kW
COP Tj = 12°C	7.69	5.59
Cdh Tj = +12 °C	0.99	0.99





Pdh Tj = Tbiv	5.01 kW	4.08 kW
COP Tj = Tbiv	2.97	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.01 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.97	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	o w	o w
PSB	o w	0 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6687 kWh	5450 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825





	Low temperature	Medium temperature
η_{s}	135 %	90 %
Prated	4.80 kW	3.30 kW
SCOP	3.46	2.32
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.10 kW	2.10 kW
COP Tj = -7°C	2.89	1.81
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.40 kW	2.09 kW
COP Tj = +2°C	4.40	2.72
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.88 kW
$COP Tj = +7^{\circ}C$	6.20	4.76
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.43 kW	3.34 kW
COP Tj = 12°C	8.00	6.85
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.90 kW	2.67 kW
COP Tj = Tbiv	2.11	1.51
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.30 kW	1.06 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.21	0.32
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	o w	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.78 kW	3.27 kW
Annual energy consumption Qhe	11493 kWh	7870 kWh

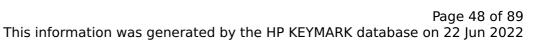
	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

	EN 14825		
		Low temperature	Medium temperature
Pdesignh	3.70 kW		-
η_s	175 %	125 %	





THIS IIIIOTHIACION W	as generated i	by the fit RETHINGS
Prated	5.10 kW	4.10 kW
SCOP	4.45	3.20
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.53 kW	3.31 kW
$COP Tj = -7^{\circ}C$	2.85	1.89
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	3.04 kW	2.65 kW
COP Tj = +2°C	4.30	3.18
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.11 kW	2.74 kW
$COP Tj = +7^{\circ}C$	5.93	4.76
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.40	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	4.53 kW	3.59 kW
COP Tj = Tbiv	2.85	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.08 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.49





Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	o w	o w
PSB	o w	o w
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.04 kW	1.20 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	10549 kWh	8383 kWh



Model: Vitocal 100-S AWB-M-E 101.B06

Configure model		
Model name	Vitocal 100-S AWB-M-E 101.B06	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	6.02 kW	4.36 kW	
El input	1.23 kW	1.80 kW	
СОР	4.90	2.42	

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

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	225 %	156 %
Prated	5.70 kW	4.10 kW
SCOP	5.70	3.97
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	5.01 kW	4.08 kW
COP Tj = +2°C	4.30	1.98
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.28 kW	2.95 kW
$COP Tj = +7^{\circ}C$	4.86	3.25
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.43 kW	3.31 kW
COP Tj = 12°C	7.69	5.59
Cdh Tj = +12 °C	0.99	0.99



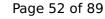


Pdh Tj = Tbiv	5.01 kW	4.08 kW
COP Tj = Tbiv	2.97	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.01 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.97	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	o w	o w
PSB	o w	0 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6687 kWh	5450 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825





	Low temperature	Medium temperature
ης	135 %	90 %
Prated	4.80 kW	3.30 kW
SCOP	3.46	2.32
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.10 kW	2.10 kW
$COPTj = -7^{\circ}C$	2.89	1.81
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.40 kW	2.09 kW
COP Tj = +2°C	4.40	2.72
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.88 kW
$COPTj = +7^{\circ}C$	6.20	4.76
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.43 kW	3.34 kW
COP Tj = 12°C	8.00	6.85
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.90 kW	2.67 kW
COP Tj = Tbiv	2.11	1.51
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.30 kW	1.06 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.21	0.32
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	o w	0 W
PSB	o w	0 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.78 kW	3.27 kW
Annual energy consumption Qhe	11493 kWh	7870 kWh

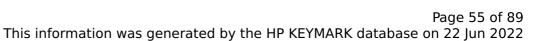
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825			
		Low temperature	Medium temperature
Pdesignh	3.70 kW		
η_{s}	175 %	125 %	





5.10 kW	4.10 kW
4.45	3.20
-7 °C	-7 °C
-20 °C	-20 °C
4.53 kW	3.31 kW
2.85	1.89
0.99	0.99
3.04 kW	2.65 kW
4.30	3.18
0.99	0.99
3.11 kW	2.74 kW
5.93	4.76
0.99	0.99
3.60 kW	3.27 kW
8.40	6.35
0.99	0.99
4.53 kW	3.59 kW
2.85	1.89
4.08 kW	2.86 kW
2.59	1.49
	4.45 -7 °C -20 °C 4.53 kW 2.85 0.99 3.04 kW 4.30 0.99 3.11 kW 5.93 0.99 3.60 kW 8.40 0.99 4.53 kW 2.85 4.08 kW





Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	0 W	0 W
PSB	o w	o w
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.04 kW	1.20 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	10549 kWh	8383 kWh



Model: Vitocal 100-S AWB-M-E-AC 101.B06

Configure model		
Model name	Vitocal 100-S AWB-M-E-AC 101.B06	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.02 kW	4.36 kW
El input	1.23 kW	1.80 kW
СОР	4.90	2.42

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

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	225 %	156 %
Prated	5.70 kW	4.10 kW
SCOP	5.70	3.97
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	5.01 kW	4.08 kW
COP Tj = +2°C	4.30	1.98
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.28 kW	2.95 kW
$COP Tj = +7^{\circ}C$	4.86	3.25
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.43 kW	3.31 kW
COP Tj = 12°C	7.69	5.59
Cdh Tj = +12 °C	0.99	0.99



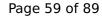


Pdh Tj = Tbiv	5.01 kW	4.08 kW
COP Tj = Tbiv	2.97	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.01 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.97	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	o w	o w
PSB	o w	0 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6687 kWh	5450 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825





	Low temperature	Medium temperature
ης	135 %	90 %
Prated	4.80 kW	3.30 kW
SCOP	3.46	2.32
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.10 kW	2.10 kW
$COPTj = -7^{\circ}C$	2.89	1.81
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.40 kW	2.09 kW
COP Tj = +2°C	4.40	2.72
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.88 kW
$COPTj = +7^{\circ}C$	6.20	4.76
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.43 kW	3.34 kW
COP Tj = 12°C	8.00	6.85
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.90 kW	2.67 kW
COP Tj = Tbiv	2.11	1.51
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.30 kW	1.06 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.21	0.32
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	o w	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.78 kW	3.27 kW
Annual energy consumption Qhe	11493 kWh	7870 kWh

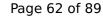
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825			
		Low temperature	Medium temperature
Pdesignh	3.70 kW		
η _s	175 %	125 %	





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Prated	5.10 kW	4.10 kW
SCOP	4.45	3.20
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.53 kW	3.31 kW
$COP Tj = -7^{\circ}C$	2.85	1.89
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	3.04 kW	2.65 kW
COP Tj = +2°C	4.30	3.18
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.11 kW	2.74 kW
$COP Tj = +7^{\circ}C$	5.93	4.76
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.40	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	4.53 kW	3.59 kW
COP Tj = Tbiv	2.85	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.08 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.49





Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	o w	o w
PSB	o w	o w
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.04 kW	1.20 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	10549 kWh	8383 kWh



Model: Vitocal 100-S AWB-M-E-AC 101.B06 F

Configure model		
Model name	Vitocal 100-S AWB-M-E-AC 101.B06 F	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	6.02 kW	4.36 kW	
El input	1.23 kW	1.80 kW	
СОР	4.90	2.42	

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

Warmer Climate



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	225 %	156 %
Prated	5.70 kW	4.10 kW
SCOP	5.70	3.97
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	5.01 kW	4.08 kW
COP Tj = +2°C	4.30	1.98
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.28 kW	2.95 kW
COP Tj = +7°C	4.86	3.25
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.43 kW	3.31 kW
COP Tj = 12°C	7.69	5.59
Cdh Tj = +12 °C	0.99	0.99





Pdh Tj = Tbiv	5.01 kW	4.08 kW
COP Tj = Tbiv	2.97	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.01 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.97	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	o w	o w
PSB	o w	0 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6687 kWh	5450 kWh

Colder Climate

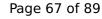
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825





	Low temperature	Medium temperature
ης	135 %	90 %
Prated	4.80 kW	3.30 kW
SCOP	3.46	2.32
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.10 kW	2.10 kW
$COPTj = -7^{\circ}C$	2.89	1.81
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.40 kW	2.09 kW
COP Tj = +2°C	4.40	2.72
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.88 kW
$COPTj = +7^{\circ}C$	6.20	4.76
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.43 kW	3.34 kW
COP Tj = 12°C	8.00	6.85
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.90 kW	2.67 kW
COP Tj = Tbiv	2.11	1.51
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.30 kW	1.06 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.21	0.32
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	0 W	0 W
PSB	o w	0 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.78 kW	3.27 kW
Annual energy consumption Qhe	11493 kWh	7870 kWh

	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
3.70 kW		
175 %	125 %	
	3.70 kW	Low temperature 3.70 kW





SCOP 4.45 3.20 Tbiv -7 °C -7 °C TOL -20 °C -20 °C Pdh Tj = -7 °C 4.53 kW 3.31 kW COP Tj = -7 °C 2.85 1.89 Cdh Tj = -7 °C 9.99 0.99 Pdh Tj = +2 °C Cdh Tj = +2 °C 4.30 3.18 COP Tj = +7 °C 3.11 kW 2.74 kW COP Tj = +7 °C Cdh Tj = +7 °C 5.93 4.76 Cdh Tj = +7 °C O.99 0.99 Pdh Tj = 12 °C Cdh Tj = +2 °C Cdh Tj = +7 °C O.99 0.99 Pdh Tj = 12 °C Cdh Tj = +7 °C O.99 0.99 Pdh Tj = 12 °C A.60 kW 3.27 kW COP Tj = 12 °C Cdh Tj = +12 °C O.99 0.99 Pdh Tj = ToC Cdh Tj = Tbiv A.53 kW 3.59 kW COP Tj = Tbiv A.53 kW 2.86 kW COP Tj = TOL or Pdh Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj = TOL or COP Tj = Tdesignh if TOL < COP Tj	This information was	J	,
Tbiv	Prated	5.10 kW	4.10 kW
TOL	SCOP	4.45	3.20
Pdh Tj = -7°C 4.53 kW 3.31 kW COP Tj = -7°C 2.85 1.89 0.99 0.99 Pdh Tj = +2°C 3.04 kW 2.65 kW COP Tj = +2°C 4.30 3.18 Cdh Tj = +2 °C 0.99 0.99 Pdh Tj = +2 °C 0.99 0.99 Pdh Tj = +7°C 3.11 kW 2.74 kW COP Tj = +7°C 5.93 4.76 Cdh Tj = +7 °C 9.99 0.99 Pdh Tj = 12°C 8.40 6.35 Cdh Tj = +12 °C 0.99 0.99 Pdh Tj = Tbiv 4.53 kW 3.59 kW COP Tj = Tbiv Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < 4.08 kW 2.86 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < 2.59 1.49	Tbiv	-7 °C	-7 °C
COP Tj = -7°C 2.85 1.89 O.99 O.99 O.99 Pdh Tj = +2°C 3.04 kW 2.65 kW COP Tj = +2°C 4.30 3.18 Cdh Tj = +2 °C O.99 O.99 O.99 Pdh Tj = +7°C 3.11 kW 2.74 kW COP Tj = +7°C 5.93 4.76 Cdh Tj = +7 °C O.99 O.99 O.99 Pdh Tj = 12°C 3.60 kW 3.27 kW COP Tj = 12°C 8.40 6.35 Cdh Tj = +12 °C O.99 O.99 Pdh Tj = ToL or Pdh Tj = Tdesignh if TOL < 1.89 Pdh Tj = TOL or COP Tj = Tdesignh if TOL < 2.59 1.49	TOL	-20 °C	-20 °C
Cdh Tj = -7 °C 0.99 0.99 Pdh Tj = $+2$ °C 3.04 kW 2.65 kW COP Tj = $+2$ °C 4.30 3.18 Cdh Tj = $+2$ °C 0.99 0.99 Pdh Tj = $+7$ °C 3.11 kW 2.74 kW COP Tj = $+7$ °C 5.93 4.76 Cdh Tj = $+7$ °C 0.99 0.99 Pdh Tj = 12 °C 3.60 kW 3.27 kW COP Tj = 12 °C 8.40 6.35 Cdh Tj = $+12$ °C 0.99 0.99 Pdh Tj = Tbiv 4.53 kW 3.59 kW COP Tj = Tbiv 2.85 1.89 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 4.08 kW 2.86 kW	Pdh Tj = -7°C	4.53 kW	3.31 kW
Pdh Tj = +2°C	COP Tj = -7°C	2.85	1.89
COP Tj = $+2^{\circ}$ C 4.30 3.18 Cdh Tj = $+2^{\circ}$ C 0.99 0.99 Pdh Tj = $+7^{\circ}$ C 3.11 kW 2.74 kW COP Tj = $+7^{\circ}$ C 5.93 4.76 Cdh Tj = $+7^{\circ}$ C 0.99 0.99 Pdh Tj = 12° C 3.60 kW 3.27 kW COP Tj = 12° C 8.40 6.35 Cdh Tj = $+12^{\circ}$ C 0.99 0.99 Pdh Tj = Tbiv 4.53 kW 3.59 kW COP Tj = Tbiv 2.85 1.89 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 4.08 kW 2.86 kW COP Tj = TOL or COP Tj = Tdesignh if TOL 2.59 1.49	Cdh Tj = -7 °C	0.99	0.99
Cdh Tj = +2 °C 0.99 0.99 Pdh Tj = +7 °C 3.11 kW 2.74 kW COP Tj = +7 °C 5.93 4.76 Cdh Tj = +7 °C 0.99 0.99 Pdh Tj = 12 °C 3.60 kW 3.27 kW COP Tj = 12 °C 8.40 6.35 Cdh Tj = +12 °C 0.99 0.99 Pdh Tj = Tbiv 4.53 kW 3.59 kW COP Tj = Tbiv 2.85 1.89 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 4.08 kW 2.86 kW COP Tj = TOL or COP Tj = Tdesignh if TOL 2.59 1.49	Pdh Tj = $+2^{\circ}$ C	3.04 kW	2.65 kW
Pdh Tj = +7°C 3.11 kW 2.74 kW COP Tj = +7°C 5.93 4.76 Cdh Tj = +7 °C 0.99 0.99 Pdh Tj = 12°C 3.60 kW 3.27 kW COP Tj = 12°C 8.40 6.35 Cdh Tj = +12 °C 0.99 0.99 Pdh Tj = Tbiv 4.53 kW 3.59 kW COP Tj = Tbiv 2.85 1.89 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 4.08 kW 2.86 kW COP Tj = TOL or COP Tj = Tdesignh if TOL 2.59 1.49	COP Tj = +2°C	4.30	3.18
COP Tj = +7°C	Cdh Tj = +2 °C	0.99	0.99
Cdh Tj = +7 °C 0.99 0.99 Pdh Tj = 12 °C 3.60 kW 3.27 kW COP Tj = 12 °C 8.40 6.35 Cdh Tj = $+12$ °C 0.99 0.99 Pdh Tj = Tbiv 4.53 kW 3.59 kW COP Tj = Tbiv 2.85 1.89 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 4.08 kW 2.86 kW COP Tj = TOL or COP Tj = Tdesignh if TOL 2.59 1.49	Pdh Tj = $+7^{\circ}$ C	3.11 kW	2.74 kW
Pdh Tj = 12°C 3.60 kW 3.27 kW COP Tj = 12°C 8.40 6.35 Cdh Tj = +12 °C 0.99 0.99 Pdh Tj = Tbiv 4.53 kW 3.59 kW COP Tj = Tbiv 2.85 1.89 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 4.08 kW 2.86 kW COP Tj = TOL or COP Tj = Tdesignh if TOL 2.59 1.49	$COP Tj = +7^{\circ}C$	5.93	4.76
COP Tj = 12°C 8.40 6.35 Cdh Tj = +12 °C 0.99 0.99 Pdh Tj = Tbiv 4.53 kW 3.59 kW COP Tj = Tbiv 2.85 1.89 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 4.08 kW 2.86 kW COP Tj = TOL or COP Tj = Tdesignh if TOL 2.59 1.49	Cdh Tj = +7 °C	0.99	0.99
Cdh Tj = $+12$ °C 0.99 0.99 Pdh Tj = Tbiv 4.53 kW 3.59 kW COP Tj = Tbiv 2.85 1.89 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < 4.08 kW 2.86 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < 2.59 1.49	Pdh Tj = 12°C	3.60 kW	3.27 kW
Pdh Tj = Tbiv 4.53 kW 3.59 kW COP Tj = Tbiv 2.85 1.89 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < 4.08 kW 2.86 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < 2.59 1.49	COP Tj = 12°C	8.40	6.35
COP Tj = Tbiv $2.85 1.89$ Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ 4.08 kW $2.86 kW$ Tdesignh $COP Tj = TOL or COP Tj = Tdesignh if TOL < 2.59 1.49$	Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ 4.08 kW 2.86 kW Tdesignh COP Tj = TOL or COP Tj = Tdesignh if TOL $<$ 2.59 1.49	Pdh Tj = Tbiv	4.53 kW	3.59 kW
Tdesignh COP Tj = TOL or COP Tj = Tdesignh if TOL $<$ 2.59 1.49	COP Tj = Tbiv	2.85	1.89
	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.08 kW	2.86 kW
	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.49





Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	o w	o w
PSB	o w	o w
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.04 kW	1.20 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	10549 kWh	8383 kWh



Model: Vitocal 111-S AWBT-M-AC 111.B06

Co	nfigure model
Model name	Vitocal 111-S AWBT-M-AC 111.B06
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

	General Data	
Power supply	1x230V 50Hz	

Heating

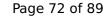
	EN 14511-2	
	Low temperature	Medium temperature
Heat output	6.02 kW	4.36 kW
El input	1.23 kW	1.80 kW
СОР	4.90	2.42

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 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

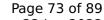
EN 14825			
		Low temperature	Medium temperature
Pdesignh	3.70 kW		
η_{s}	175 %	125 %	
Prated	5.10 kW	4.10 kW	
SCOP	4.45	3.20	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	4.53 kW	3.31 kW	
COP Tj = -7°C	2.85	1.89	
Cdh Tj = -7 °C	0.99	0.99	
Pdh Tj = $+2$ °C	3.04 kW	2.65 kW	
COP Tj = +2°C	4.30	3.18	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	3.11 kW	2.74 kW	
$COP Tj = +7^{\circ}C$	5.93	4.76	





		,
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.40	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	4.53 kW	3.59 kW
COP Tj = Tbiv	2.85	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.08 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.49
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	o w	o w
PSB	o w	o w
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.04 kW	1.20 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	10549 kWh	8383 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.32	
Heating up time	2:15 h:min	
Standby power input	25.0 W	
Reference hot water temperature	53.4 °C	
Mixed water at 40°C	296.1	



Model: Vitocal 111-S AWBT-M-E 111.B06

Configure model		
Model name	Vitocal 111-S AWBT-M-E 111.B06	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data			
Power supply 1x230V 50Hz			

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	6.02 kW	4.36 kW	
El input	1.23 kW	1.80 kW	
СОР	4.90	2.42	

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 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825			
		Low temperature	Medium temperature
Pdesignh	3.70 kW		
η_{s}	175 %	125 %	
Prated	5.10 kW	4.10 kW	
SCOP	4.45	3.20	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	4.53 kW	3.31 kW	
COP Tj = -7°C	2.85	1.89	
Cdh Tj = -7 °C	0.99	0.99	
Pdh Tj = $+2$ °C	3.04 kW	2.65 kW	
COP Tj = +2°C	4.30	3.18	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	3.11 kW	2.74 kW	
$COP Tj = +7^{\circ}C$	5.93	4.76	





	,	,
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.40	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	4.53 kW	3.59 kW
COP Tj = Tbiv	2.85	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.08 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.49
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	o w	o w
PSB	o w	o w
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.04 kW	1.20 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	10549 kWh	8383 kWh

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.32	
Heating up time	2:15 h:min	
Standby power input	25.0 W	
Reference hot water temperature	53.4 °C	
Mixed water at 40°C	296.1	

Model: Vitocal 111-S AWBT-M-E-AC 111.B06

Configure model		
Model name	Vitocal 111-S AWBT-M-E-AC 111.B06	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data			
Power supply 1x230V 50Hz			

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	6.02 kW	4.36 kW	
El input	1.23 kW	1.80 kW	
СОР	4.90	2.42	

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 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

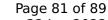
	EN	14825		
			Low temperature	Medium temperature
Pdesignh		3.70 kW		
η_{s}		175 %	125 %	
Prated		5.10 kW	4.10 kW	
SCOP		4.45	3.20	
Tbiv		-7 °C	-7 °C	
TOL		-20 °C	-20 °C	
Pdh Tj = -7°C		4.53 kW	3.31 kW	
COP Tj = -7°C		2.85	1.89	
Cdh Tj = -7 °C		0.99	0.99	
Pdh Tj = +2°C		3.04 kW	2.65 kW	
COP Tj = +2°C		4.30	3.18	
Cdh Tj = +2 °C		0.99	0.99	
Pdh Tj = +7°C		3.11 kW	2.74 kW	
$COPTj = +7^{\circ}C$		5.93	4.76	





	1	
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.40	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	4.53 kW	3.59 kW
COP Tj = Tbiv	2.85	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.08 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.49
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	0 W	o w
PSB	0 W	o w
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.04 kW	1.20 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	10549 kWh	8383 kWh
		•

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	3.32
Heating up time	2:15 h:min
Standby power input	25.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	296.1

Model: Vitocal 111-S AWBT-M-E-AC 111.B06 F

C	onfigure model
Model name	Vitocal 111-S AWBT-M-E-AC 111.B06 F
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

	General Data	
Power supply	1x230V 50Hz	

Heating

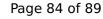
EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.02 kW	4.36 kW
El input	1.23 kW	1.80 kW
СОР	4.90	2.42

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 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

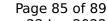
EN 14825			
		Low temperature	Medium temperature
Pdesignh	3.70 kW		
η_{s}	175 %	125 %	
Prated	5.10 kW	4.10 kW	
SCOP	4.45	3.20	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	4.53 kW	3.31 kW	
$COP Tj = -7^{\circ}C$	2.85	1.89	
Cdh Tj = -7 °C	0.99	0.99	
Pdh Tj = +2°C	3.04 kW	2.65 kW	
$COP Tj = +2^{\circ}C$	4.30	3.18	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	3.11 kW	2.74 kW	
$COP Tj = +7^{\circ}C$	5.93	4.76	





	1	
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.40	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	4.53 kW	3.59 kW
COP Tj = Tbiv	2.85	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.08 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.49
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	0 W	o w
PSB	0 W	o w
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.04 kW	1.20 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	10549 kWh	8383 kWh
		•

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.32	
Heating up time	2:15 h:min	
Standby power input	25.0 W	
Reference hot water temperature	53.4 °C	
Mixed water at 40°C	296.1	

Model: Vitocal 111-S AWBT-M-E-AC 111.B04 F

Configure model			
Model name Vitocal 111-S AWBT-M-E-AC 111.B04 F			
Application	Heating + DHW + low temp		
Units	Indoor + Outdoor		
Climate Zone	n/a		
Reversibility	No		
Cooling mode application (optional)	n/a		

General Data				
Power supply 1x230V 50Hz				

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.08 kW	4.36 kW	
El input	0.80 kW	1.80 kW	
СОР	5.10	2.42	

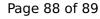
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	





EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

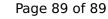
EN 14825			
		Low temperature	Medium temperature
Pdesignh	3.70 kW		
η_{s}	175 %	126 %	
Prated	4.00 kW	3.70 kW	
SCOP	4.45	3.22	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	3.51 kW	3.31 kW	
COP Tj = -7°C	2.84	1.89	
Cdh Tj = -7 °C	0.99	0.99	
Pdh Tj = +2°C	2.45 kW	2.65 kW	
COP Tj = +2°C	2.84	3.18	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = $+7^{\circ}$ C	3.14 kW	2.74 kW	
COP Tj = +7°C	5.97	4.36	





		-
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.60 kW	3.27 kW
COP Tj = 12°C	8.78	6.35
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.51 kW	3.31 kW
COP Tj = Tbiv	2.84	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.83 kW	2.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.49
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	o w	0 W
PSB	o w	0 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.14 kW	0.88 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	8202 kWh	7700 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.32	
Heating up time	2:15 h:min	
Standby power input	25.0 W	
Reference hot water temperature	53.4 °C	
Mixed water at 40°C	296.1	