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Login

Summary of	Vitocal 2xx-S ODU4	Reg. No.	011-1W0202	
Certificate Holder				
Name	Viessmann Wärmepumpen G	Viessmann Wärmepumpen GmbH		
Address	Viessmannstr. 1	Zip	35107	
City	Allendorf/Eder	Country	Germany	
Certification Body	DIN CERTCO Gesellschaft für	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	Vitocal 2xx-S ODU4	Vitocal 2xx-S ODU4		
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410A			
Mass of Refrigerant	3.6 kg			

This information was generated by the HP KEYMARK database on 7 Jul 2022

Model: Vitocal 200-S AWB-E-AC 201.D10

Configure model		
Model name	Vitocal 200-S AWB-E-AC 201.D10	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.58 kW	7.89 kW
El input	1.51 kW	2.67 kW
СОР	5.01	2.96



EN 14825	
Pdesignh	9.75 kW
Rated airflow rate	4500 m³/h

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	180 %	132 %
Prated	9.75 kW	9.67 kW
SCOP	4.58	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7° C	8.63 kW	8.56 kW
COP Tj = -7°C	3.27	2.28
Pdh Tj = $+2$ °C	5.34 kW	5.48 kW
$COPTj = +2^{\circ}C$	4.34	3.19





This information was generated by the Fir KETMAKK database on 7 Jul 2022				
Pdh Tj = +7°C	6.63 kW	6.30 kW		
$COPTj = +7^{\circ}C$	5.98	4.43		
Pdh Tj = 12°C	6.85 kW	6.61 kW		
COP Tj = 12°C	7.81	5.86		
Pdh Tj = Tbiv	8.63 kW	8.56 kW		
COP Tj = Tbiv	3.27	2.28		
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.87 kW	8.32 kW		
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.93	2.07		
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99		
WTOL	60 °C	60 °C		
Poff	24 W	24 W		
РТО	0 W	0 W		
PSB	25 W	25 W		
РСК	0 W	0 W		
Supplementary Heater: Type of energy input	Electricity	Electricity		
Supplementary Heater: PSUP	1.93 kW	1.40 kW		
Annual energy consumption Qhe	4398 kWh	5933 kWh		
	-	<u> </u>		

This information was generated by the HP KEYMARK database on 7 Jul 2022

Model: Vitocal 200-S AWB-E-AC 201.D13

Configure model		
Model name	Vitocal 200-S AWB-E-AC 201.D13	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

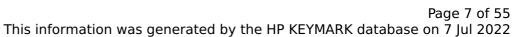
EN 14511-2				
Low temperature Medium temperature				
Heat output	8.88 kW	8.44 kW		
El input	1.78 kW	2.80 kW		
СОР	4.99	3.01		



EN 14825		
Pdesignh	10.99 kW	
Rated airflow rate	4500 m³/h	

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor 56 dB(A) 56 dB(A)			

EN 14825		
	Low temperature	Medium temperature
η_{s}	182 %	134 %
Prated	10.99 kW	11.00 kW
SCOP	4.64	3.42
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.73 kW	9.73 kW
COP Tj = -7°C	3.16	2.28
Pdh Tj = +2°C	5.98 kW	5.87 kW
COPTj = +2°C	4.46	3.28
COP Tj = +2°C	4.46	3.28





		in the database on 7 july 202.
Pdh Tj = +7°C	6.86 kW	6.53 kW
$COP Tj = +7^{\circ}C$	6.05	4.50
Pdh Tj = 12°C	6.87 kW	6.61 kW
COP Tj = 12°C	7.91	5.90
Pdh Tj = Tbiv	9.73 kW	9.73 kW
COP Tj = Tbiv	3.16	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.86 kW	9.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	60 °C	60 °C
Poff	31 W	31 W
РТО	o w	0 W
PSB	25 W	25 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.19 kW	1.59 kW
Annual energy consumption Qhe	4898 kWh	6658 kWh



This information was generated by the HP KEYMARK database on 7 Jul 2022

Model: Vitocal 200-S AWB-E-AC 201.D16

Configure model		
Model name Vitocal 200-S AWB-E-AC 201.D16		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

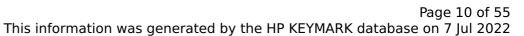
EN 14511-2				
Low temperature Medium temperature				
Heat output	10.11 kW	9.16 kW		
El input	2.04 kW	3.05 kW		
СОР	4.95	3.00		



EN 14825		
Pdesignh	11.65 kW	
Rated airflow rate	4500 m³/h	

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor 56 dB(A) 56 dB(A)			

EN 14825		
	Low temperature	Medium temperature
η_{s}	182 %	134 %
Prated	11.65 kW	11.98 kW
SCOP	4.62	3.42
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.30 kW	10.60 kW
COP Tj = -7°C	3.09	2.32
Pdh Tj = $+2$ °C	6.41 kW	6.25 kW
COP Tj = +2°C	4.49	3.34





This information was generated by the Fir KLTMAKK database on 7 Jul 2022				
Pdh Tj = +7°C	7.27 kW	6.78 kW		
$COPTj = +7^{\circ}C$	5.94	4.54		
Pdh Tj = 12°C	6.88 kW	6.63 kW		
COP Tj = 12°C	7.94	5.98		
Pdh Tj = Tbiv	10.30 kW	10.60 kW		
COP Tj = Tbiv	3.09	2.32		
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.39 kW	9.92 kW		
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.79	2.05		
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99		
WTOL	60 °C	60 °C		
Poff	40 W	40 W		
РТО	o w	0 W		
PSB	25 W	25 W		
РСК	o w	o w		
Supplementary Heater: Type of energy input	Electricity	Electricity		
Supplementary Heater: PSUP	2.31 kW	2.13 kW		
Annual energy consumption Qhe	5210 kWh	7248 kWh		
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This information was generated by the HP KEYMARK database on 7 Jul 2022

Model: Vitocal 200-S AWB 201.D10

Configure model		
Model name	Vitocal 200-S AWB 201.D10	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.58 kW	7.89 kW
El input	1.51 kW	2.67 kW
СОР	5.01	2.96



EN 14825	
Pdesignh	9.75 kW
Rated airflow rate	4500 m³/h

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	180 %	132 %
Prated	9.75 kW	9.67 kW
SCOP	4.58	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7° C	8.63 kW	8.56 kW
$COP Tj = -7^{\circ}C$	3.27	2.28
Pdh Tj = $+2$ °C	5.34 kW	5.48 kW
$COPTj = +2^{\circ}C$	4.34	3.19



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This information was generated by the HP KEYMARK database on 7 Jul 2022

Pdh Tj = +7°C	6.63 kW	6.30 kW
$COP Tj = +7^{\circ}C$	5.98	4.43
Pdh Tj = 12°C	6.85 kW	6.61 kW
COP Tj = 12°C	7.81	5.86
Pdh Tj = Tbiv	8.63 kW	8.56 kW
COP Tj = Tbiv	3.27	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.87 kW	8.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.93	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	0 W	0 W
PSB	25 W	25 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.93 kW	1.40 kW
Annual energy consumption Qhe	4398 kWh	5933 kWh
	•	



Model: Vitocal 200-S AWB 201.D13

Configure model		
Model name	Vitocal 200-S AWB 201.D13	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2				
Low temperature Medium temperature				
Heat output	8.88 kW	8.44 kW		
El input	1.78 kW	2.80 kW		
СОР	4.99	3.01		



EN 14825		
Pdesignh	10.99 kW	
Rated airflow rate	4500 m³/h	

EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor 56 dB(A) 56 dB(A)			

EN 14825		
	Low temperature	Medium temperature
η_{s}	182 %	134 %
Prated	10.99 kW	11.00 kW
SCOP	4.64	3.42
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.73 kW	9.73 kW
$COPTj = -7^{\circ}C$	3.16	2.28
Pdh Tj = +2°C	5.98 kW	5.87 kW
$COPTj = +2^{\circ}C$	4.46	3.28



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This information was generated by the HP KEYMARK database on 7 Jul 2022

Pdh Tj = +7°C	6.86 kW	6.53 kW
$COP Tj = +7^{\circ}C$	6.05	4.50
Pdh Tj = 12°C	6.87 kW	6.61 kW
COP Tj = 12°C	7.91	5.90
Pdh Tj = Tbiv	9.73 kW	9.73 kW
COP Tj = Tbiv	3.16	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.86 kW	9.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	60 °C	60 °C
Poff	31 W	31 W
РТО	o w	o w
PSB	25 W	25 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.19 kW	1.59 kW
Annual energy consumption Qhe	4898 kWh	6652 kWh



Model: Vitocal 200-S AWB 201.D16

Configure model		
Model name Vitocal 200-S AWB 201.D16		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional) n/a		

General Data		
Power supply	3x400V 50Hz	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2				
Low temperature Medium temperature				
Heat output	10.11 kW	9.16 kW		
El input	2.04 kW	3.05 kW		
СОР	4.95	3.00		



EN 14825		
Pdesignh	11.65 kW	
Rated airflow rate	4500 m³/h	

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor 56 dB(A) 56 dB(A)			

EN 14825		
	Low temperature	Medium temperature
η_{s}	182 %	134 %
Prated	11.65 kW	11.98 kW
SCOP	4.62	3.42
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7° C	10.30 kW	10.60 kW
$COPTj = -7^{\circ}C$	3.09	2.32
Pdh Tj = $+2$ °C	6.41 kW	6.25 kW
COP Tj = +2°C	4.49	3.34



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This information was generated by the HP KEYMARK database on 7 Jul 2022

Pdh Tj = $+7^{\circ}$ C	7.27 kW	6.78 kW
$COP Tj = +7^{\circ}C$	5.94	4.54
Pdh Tj = 12°C	6.88 kW	6.63 kW
COP Tj = 12°C	7.94	5.98
Pdh Tj = Tbiv	10.30 kW	10.60 kW
COP Tj = Tbiv	3.09	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.39 kW	9.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.79	2.05
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	60 °C	60 °C
Poff	40 W	40 W
РТО	0 W	0 W
PSB	25 W	25 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.31 kW	2.13 kW
Annual energy consumption Qhe	5210 kWh	7248 kWh
	•	



Model: Vitocal 200-S AWB-E 201.D10

Configure model		
Model name	Vitocal 200-S AWB-E 201.D10	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

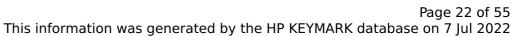
EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.58 kW	7.89 kW
El input	1.51 kW	2.67 kW
СОР	5.01	2.96



EN 14825	
Pdesignh	9.75 kW
Rated airflow rate	4500 m³/h

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	180 %	132 %
Prated	9.75 kW	9.67 kW
SCOP	4.58	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7° C	8.63 kW	8.56 kW
COP Tj = -7°C	3.27	2.28
Pdh Tj = +2°C	5.34 kW	5.48 kW
$COP Tj = +2^{\circ}C$	4.34	3.19





	,	,
Pdh Tj = $+7^{\circ}$ C	6.63 kW	6.30 kW
$COP Tj = +7^{\circ}C$	5.98	4.43
Pdh Tj = 12°C	6.85 kW	6.61 kW
COP Tj = 12°C	7.81	5.86
Pdh Tj = Tbiv	8.63 kW	8.56 kW
COP Tj = Tbiv	3.27	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.87 kW	8.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.93	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	o w	o w
PSB	25 W	25 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.93 kW	1.40 kW
Annual energy consumption Qhe	4398 kWh	5933 kWh



Model: Vitocal 200-S AWB-E 201.D13

Configure model		
Model name	Vitocal 200-S AWB-E 201.D13	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data	
Power supply	3x400V 50Hz

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2				
Low temperature Medium temperature				
Heat output	8.88 kW	8.44 kW		
El input	1.78 kW	2.80 kW		
СОР	4.99	3.01		



EN 14825	
Pdesignh	10.99 kW
Rated airflow rate	4500 m³/h

EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor 56 dB(A) 56 dB(A)			

EN 14825		
	Low temperature	Medium temperature
η_{S}	182 %	134 %
Prated	10.99 kW	11.00 kW
SCOP	4.64	3.42
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7° C	9.73 kW	9.73 kW
COP Tj = -7° C	3.16	2.28
Pdh Tj = $+2$ °C	5.98 kW	5.87 kW
$COPTj = +2^{\circ}C$	4.46	3.28





Pdh Tj = $+7^{\circ}$ C	6.86 kW	6.53 kW
$COP Tj = +7^{\circ}C$	6.05	4.50
Pdh Tj = 12°C	6.87 kW	6.61 kW
COP Tj = 12°C	7.91	5.90
Pdh Tj = Tbiv	9.73 kW	9.73 kW
COP Tj = Tbiv	3.16	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.86 kW	9.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	60 °C	60 °C
Poff	31 W	31 W
РТО	o w	o w
PSB	25 W	25 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.19 kW	1.59 kW
Annual energy consumption Qhe	4898 kWh	6652 kWh



Model: Vitocal 200-S AWB-E 201.D16

Configure model		
Model name Vitocal 200-S AWB-E 201.D16		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility No		
Cooling mode application (optional) n/a		

General Data		
Power supply	3x400V 50Hz	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

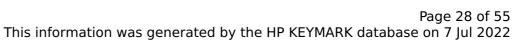
EN 14511-2				
Low temperature Medium temperature				
Heat output	10.11 kW	9.16 kW		
El input	2.04 kW	3.05 kW		
СОР	4.95	3.00		



EN 14825	
Pdesignh	11.65 kW
Rated airflow rate	4500 m³/h

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor 56 dB(A) 56 dB(A)			

EN 14825		
	Low temperature	Medium temperature
η_{s}	182 %	134 %
Prated	11.65 kW	11.98 kW
SCOP	4.62	3.42
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7° C	10.30 kW	10.60 kW
$COP Tj = -7^{\circ}C$	3.09	2.32
Pdh Tj = $+2$ °C	6.41 kW	6.25 kW
$COPTj = +2^{\circ}C$	4.49	3.34





in a managem		THIR database on 7 Jul 2021
Pdh Tj = +7°C	7.27 kW	6.78 kW
$COP Tj = +7^{\circ}C$	5.94	4.54
Pdh Tj = 12°C	6.88 kW	6.63 kW
COP Tj = 12°C	7.94	5.98
Pdh Tj = Tbiv	10.30 kW	10.60 kW
COP Tj = Tbiv	3.09	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.39 kW	9.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.79	2.05
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	60 °C	60 °C
Poff	40 W	40 W
РТО	0 W	0 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.31 kW	2.13 kW
Annual energy consumption Qhe	5210 kWh	7248 kWh
	*	



Model: Vitocal 222-S AWBT 221.C10

Configure model		
Model name	Vitocal 222-S AWBT 221.C10	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.58 kW	7.89 kW
El input	1.51 kW	2.67 kW
СОР	5.01	2.96



EN 14825	
Pdesignh	9.75 kW
Rated airflow rate	4500 m³/h

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

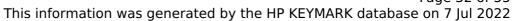
EN 14825		
	Low temperature	Medium temperature
η_{s}	180 %	132 %
Prated	9.75 kW	9.67 kW
SCOP	4.58	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.63 kW	8.56 kW
COP Tj = -7°C	3.27	2.28
Pdh Tj = +2°C	5.34 kW	5.48 kW
COP Tj = +2°C	4.34	3.19



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This information was generated by the HP KEYMARK database on 7 Jul 2022

Pdh Tj = $+7^{\circ}$ C	6.63 kW	6.30 kW
$COP Tj = +7^{\circ}C$	5.98	4.43
Pdh Tj = 12°C	6.85 kW	6.61 kW
COP Tj = 12°C	7.81	5.86
Pdh Tj = Tbiv	8.63 kW	8.56 kW
COP Tj = Tbiv	3.27	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.87 kW	8.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.93	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	60 °C	60 °C
Poff	24 W	24 W
РТО	o w	o w
PSB	25 W	25 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.93 kW	1.40 kW
Annual energy consumption Qhe	4398 kWh	5933 kWh





Model: Vitocal 222-S AWBT 221.C13

Configure model		
Model name	Vitocal 222-S AWBT 221.C13	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data	
Power supply	3x400V 50Hz

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

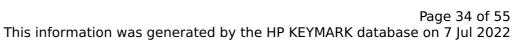
EN 14511-2				
Low temperature Medium temperature				
Heat output	8.88 kW	8.44 kW		
El input	1.78 kW	2.80 kW		
СОР	4.99	3.01		



EN 14825	
Pdesignh	10.99 kW
Rated airflow rate	4500 m³/h

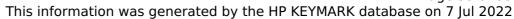
EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor 56 dB(A) 56 dB(A)			

EN 14825		
	Low temperature	Medium temperature
η_{s}	182 %	134 %
Prated	10.99 kW	11.00 kW
SCOP	4.64	3.42
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.73 kW	9.73 kW
$COP Tj = -7^{\circ}C$	3.16	2.28
Pdh Tj = +2°C	5.98 kW	5.87 kW
$COP Tj = +2^{\circ}C$	4.46	3.28





Pdh Tj = $+7^{\circ}$ C	6.86 kW	6.53 kW
$COP Tj = +7^{\circ}C$	6.05	4.50
Pdh Tj = 12°C	6.87 kW	6.61 kW
COP Tj = 12°C	7.91	5.90
Pdh Tj = Tbiv	9.73 kW	9.73 kW
COP Tj = Tbiv	3.16	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.86 kW	9.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	60 °C	60 °C
Poff	31 W	31 W
РТО	o w	o w
PSB	25 W	25 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.19 kW	1.59 kW
Annual energy consumption Qhe	4898 kWh	6652 kWh





Model: Vitocal 222-S AWBT 221.C16

Configure model		
Model name Vitocal 222-S AWBT 221.C16		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional) n/a		

General Data		
Power supply	3x400V 50Hz	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2			
Low temperature Medium temperature			
Heat output	10.11 kW	9.16 kW	
El input	2.04 kW	3.05 kW	
СОР	4.95	3.00	



EN 14825	
Pdesignh	11.65 kW
Rated airflow rate	4500 m³/h

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor 56 dB(A) 56 dB(A)			

EN 14825		
	Low temperature	Medium temperature
η_{s}	182 %	134 %
Prated	11.65 kW	11.98 kW
SCOP	4.62	3.42
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7° C	10.30 kW	10.60 kW
$COP Tj = -7^{\circ}C$	3.09	2.32
Pdh Tj = $+2$ °C	6.41 kW	6.25 kW
$COPTj = +2^{\circ}C$	4.49	3.34



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		-
Pdh Tj = +7°C	7.27 kW	6.78 kW
$COP Tj = +7^{\circ}C$	5.94	4.54
Pdh Tj = 12°C	6.88 kW	6.63 kW
COP Tj = 12°C	7.94	5.98
Pdh Tj = Tbiv	10.30 kW	10.60 kW
COP Tj = Tbiv	3.09	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.39 kW	9.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.79	2.05
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	60 °C	60 °C
Poff	40 W	40 W
РТО	0 W	0 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.31 kW	2.13 kW
Annual energy consumption Qhe	5210 kWh	7248 kWh
		•



Model: Vitocal 222-S AWBT-E-AC 221.C10

Configure model		
Model name	Vitocal 222-S AWBT-E-AC 221.C10	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.58 kW	7.89 kW
El input	1.51 kW	2.67 kW
СОР	5.01	2.96



EN 14825	
Pdesignh	9.75 kW
Rated airflow rate	4500 m³/h

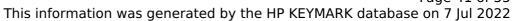
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	180 %	132 %
Prated	9.75 kW	9.67 kW
SCOP	4.58	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	8.63 kW	8.56 kW
COP Tj = -7 °C	3.27	2.28
Pdh Tj = $+2$ °C	5.34 kW	5.48 kW
COP Tj = +2°C	4.34	3.19





6.63 kW	6.30 kW
5.98	4.43
6.85 kW	6.61 kW
7.81	5.86
8.63 kW	8.56 kW
3.27	2.28
7.87 kW	8.32 kW
2.93	2.07
0.98	0.99
60 °C	60 °C
24 W	24 W
0 W	0 W
25 W	25 W
o w	0 W
Electricity	Electricity
1.93 kW	1.40 kW
4398 kWh	5933 kWh
	5.98 6.85 kW 7.81 8.63 kW 3.27 7.87 kW 2.93 0.98 60 °C 24 W 0 W 25 W 0 W Electricity 1.93 kW





Model: Vitocal 222-S AWBT-E-AC 221.C13

Configure model		
Model name	Vitocal 222-S AWBT-E-AC 221.C13	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

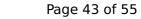
EN 14511-2				
Low temperature Medium temperature				
Heat output	8.88 kW	8.44 kW		
El input	1.78 kW	2.80 kW		
СОР	4.99	3.01		

EN 14825		
Pdesignh	10.99 kW	
Rated airflow rate	4500 m³/h	

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor 56 dB(A) 56 dB(A)			

EN 14825		
	Low temperature	Medium temperature
η_{s}	182 %	134 %
Prated	10.99 kW	11.00 kW
SCOP	4.64	3.42
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.73 kW	9.73 kW
$COPTj = -7^{\circ}C$	3.16	2.28
Pdh Tj = +2°C	5.98 kW	5.87 kW
$COPTj = +2^{\circ}C$	4.46	3.28





6.86 kW	6.53 kW
6.05	4.50
6.87 kW	6.61 kW
7.91	5.90
9.73 kW	9.73 kW
3.16	2.28
8.86 kW	9.47 kW
2.84	2.07
0.98	0.99
60 °C	60 °C
31 W	31 W
o w	o w
25 W	25 W
o w	0 W
Electricity	Electricity
2.19 kW	1.59 kW
4898 kWh	6652 kWh
	6.05 6.87 kW 7.91 9.73 kW 3.16 8.86 kW 2.84 0.98 60 °C 31 W 0 W 25 W 0 W Electricity 2.19 kW



Model: Vitocal 222-S AWBT-E-AC 221.C16

Configure model		
Model name Vitocal 222-S AWBT-E-AC 221.C16		
Application	Heating (medium temp)	
Units	s Indoor + Outdoor	
Climate Zone n/a		
Reversibility No		
Cooling mode application (optional) n/a		

General Data		
Power supply	3x400V 50Hz	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2				
Low temperature Medium temperature				
Heat output	10.11 kW	9.16 kW		
El input	2.04 kW	3.05 kW		
СОР	4.95	3.00		



EN 14825		
Pdesignh	11.65 kW	
Rated airflow rate	4500 m³/h	

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor 56 dB(A) 56 dB(A)			

EN 14825		
	Low temperature	Medium temperature
η_{s}	182 %	134 %
Prated	11.65 kW	11.98 kW
SCOP	4.62	3.42
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7° C	10.30 kW	10.60 kW
$COPTj = -7^{\circ}C$	3.09	2.32
Pdh Tj = $+2$ °C	6.41 kW	6.25 kW
COP Tj = +2°C	4.49	3.34





7.27 kW	6.78 kW
5.94	4.54
6.88 kW	6.63 kW
7.94	5.98
10.30 kW	10.60 kW
3.09	2.32
9.39 kW	9.92 kW
2.79	2.05
0.98	0.99
60 °C	60 °C
40 W	40 W
o w	0 W
25 W	25 W
o w	o w
Electricity	Electricity
2.31 kW	2.13 kW
5210 kWh	7248 kWh
	5.94 6.88 kW 7.94 10.30 kW 3.09 9.39 kW 2.79 0.98 60 °C 40 W 0 W 25 W 0 W Electricity 2.31 kW



Model: Vitocal 222-S AWBT-E 221.C10

Configure model		
Model name	Vitocal 222-S AWBT-E 221.C10	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

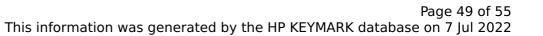
EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.58 kW	7.89 kW
El input	1.51 kW	2.67 kW
СОР	5.01	2.96

EN 14825		
Pdesignh	9.75 kW	
Rated airflow rate	4500 m³/h	

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	180 %	132 %
Prated	9.75 kW	9.67 kW
SCOP	4.58	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	8.63 kW	8.56 kW
COP Tj = -7°C	3.27	2.28
Pdh Tj = +2°C	5.34 kW	5.48 kW
COP Tj = +2°C	4.34	3.19





Pdh Tj = $+7^{\circ}$ C	6.63 kW	6.30 kW
$COP Tj = +7^{\circ}C$	5.98	4.43
Pdh Tj = 12°C	6.85 kW	6.61 kW
COP Tj = 12°C	7.81	5.86
Pdh Tj = Tbiv	8.63 kW	8.56 kW
COP Tj = Tbiv	3.27	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.87 kW	8.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.93	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	0 W	0 W
PSB	25 W	25 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.93 kW	1.40 kW
Annual energy consumption Qhe	4398 kWh	5933 kWh
	•	·



Model: Vitocal 222-S AWBT-E 221.C13

Configure model		
Model name	Vitocal 222-S AWBT-E 221.C13	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	
Complete power supply failure	
Defrost test	passed

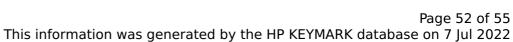
EN 14511-2			
Low temperature Medium temperature			
Heat output	8.88 kW	8.44 kW	
El input	1.78 kW	2.80 kW	
СОР	4.99	3.01	



EN 14825		
Pdesignh	10.99 kW	
Rated airflow rate	4500 m³/h	

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor 56 dB(A) 56 dB(A)			

EN 14825		
	Low temperature	Medium temperature
η_{S}	182 %	134 %
Prated	10.99 kW	11.00 kW
SCOP	4.64	3.42
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	9.73 kW	9.73 kW
COP Tj = -7 °C	3.16	2.28
Pdh Tj = $+2$ °C	5.98 kW	5.87 kW
COP Tj = +2°C	4.46	3.28





Pdh Tj = $+7^{\circ}$ C	6.86 kW	6.53 kW
$COP Tj = +7^{\circ}C$	6.05	4.50
Pdh Tj = 12°C	6.87 kW	6.61 kW
COP Tj = 12°C	7.91	5.90
Pdh Tj = Tbiv	9.73 kW	9.73 kW
COP Tj = Tbiv	3.16	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.86 kW	9.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	60 °C	60 °C
Poff	31 W	31 W
РТО	o w	o w
PSB	25 W	25 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.19 kW	1.59 kW
Annual energy consumption Qhe	4898 kWh	6652 kWh



Model: Vitocal 222-S AWBT-E 221.C16

Configure model		
Model name Vitocal 222-S AWBT-E 221.C16		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility No		
Cooling mode application (optional) n/a		

General Data		
Power supply 3x400V 50Hz		

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2			
Low temperature Medium temperature			
Heat output	10.11 kW	9.16 kW	
El input	2.04 kW	3.05 kW	
СОР	4.95	3.00	



EN 14825			
Pdesignh 11.65 kW			
Rated airflow rate 4500 m³/h			

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor 56 dB(A) 56 dB(A)			

EN 14825		
	Low temperature	Medium temperature
η_{s}	182 %	134 %
Prated	11.65 kW	11.98 kW
SCOP	4.62	3.42
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7° C	10.30 kW	10.60 kW
COP Tj = -7 °C	3.09	2.32
Pdh Tj = $+2$ °C	6.41 kW	6.25 kW
COP Tj = +2°C	4.49	3.34



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Pdh Tj = $+7^{\circ}$ C	7.27 kW	6.78 kW
$COP Tj = +7^{\circ}C$	5.94	4.54
Pdh Tj = 12°C	6.88 kW	6.63 kW
COP Tj = 12°C	7.94	5.98
Pdh Tj = Tbiv	10.30 kW	10.60 kW
COP Tj = Tbiv	3.09	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.39 kW	9.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.79	2.05
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	60 °C	60 °C
Poff	40 W	40 W
РТО	o w	o w
PSB	25 W	25 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.31 kW	2.13 kW
Annual energy consumption Qhe	5210 kWh	7248 kWh