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Login

Summary of	VWL 75/6 A 230V	Reg. No.	40050985
Certificate Holder			
Name	Vaillant Deutschland GmbH & Co KG		
Address	Berghauser Straße 40	Zip	42859
City	Remscheid	Country	Germany
Certification Body	VDE Prüf- und Zertifizierungsinstitut GmbH		
Subtype title	VWL 75/6 A 230V		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R290		
Mass of Refrigerant	0.9 kg		
Certification Date	11.11.2022		
Testing basis	DIN EN 14511-1:2019-07; EN 14511-1:2018; DIN EN 14511-2:2019-07; EN 14511-2:2018; DIN EN 14511-3:2019-07; EN 14511-3:2018; DIN EN 14511-4:2019-07; EN 14511-4:2018; DIN EN 14825:2019-07; EN 14825:2018; DIN EN 12102-1:2018-02; EN 12102-1:2017		

Model: VWL 85/6 A 230V S3

Configure model		
Model name	VWL 85/6 A 230V S3	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

COP

EN 14511-2			
Low temperature Medium temperature			
Heat output	7.37 kW	7.58 kW	
El input	1.66 kW	2.65 kW	

2.85

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

4.42



EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	228 %	162 %
Prated	6.87 kW	7.06 kW
SCOP	5.78	4.13
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.87 kW	7.06 kW
COP Tj = +2°C	3.18	2.31
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.38 kW	4.71 kW
COP Tj = +7°C	5.29	3.44
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	3.68 kW	3.56 kW
COP Tj = 12°C	7.37	5.62
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	6.87 kW	7.06 kW

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COP Tj = Tbiv	3.18	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.87 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.18	2.31
WTOL	55 °C	55 °C
Poff	8 W	8 W
РТО	29 W	29 W
PSB	29 W	29 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	1586 kWh	2284 kWh

Colder Climate

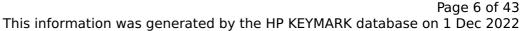
EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	159 %	119 %
Prated	6.03 kW	5.59 kW





SCOP	4.05	3.06
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.71 kW	3.77 kW
$COP Tj = -7^{\circ}C$	3.42	2.54
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = $+2$ °C	2.80 kW	2.59 kW
$COPTj = +2^{\circ}C$	5.04	3.70
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = $+7^{\circ}$ C	3.25 kW	3.12 kW
$COP Tj = +7^{\circ}C$	6.63	5.08
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.73 kW	3.67 kW
COP Tj = 12°C	7.71	6.80
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	4.92 kW	4.56 kW
COP Tj = Tbiv	2.57	1.92
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.66 kW	3.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.19	1.56
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh		
WTOL	55 °C	55 °C





Poff 8 W 8 W PTO 29 W 29 W **PSB** 29 W 29 W 0 W **PCK** 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 6.03 kW 5.59 kW 3665 kWh Annual energy consumption Qhe 4506 kWh Pdh Tj = -15°C (if TOL<-20°C) 4.92 4.56 COP Tj = -15°C (if TOL<-20°C) 2.57 1.92

Average Climate

Cdh Tj = -15 $^{\circ}$ C

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	57 dB(A)

0.980

0.990

EN 14825		
	Low temperature	Medium temperature
η_{s}	187 %	135 %
Prated	7.21 kW	6.39 kW
SCOP	4.75	3.44





This information was gener	ated by the Hi KETMA	ink database on 1 Dec 2022
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.38 kW	5.66 kW
COP Tj = -7°C	2.93	2.17
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.83 kW	3.49 kW
COP Tj = +2°C	4.73	3.32
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = $+7^{\circ}$ C	3.21 kW	3.06 kW
$COP Tj = +7^{\circ}C$	6.33	4.67
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.72 kW	3.62 kW
COP Tj = 12°C	7.79	6.23
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	6.38 kW	5.66 kW
COP Tj = Tbiv	2.93	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.00 kW	5.09 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.66	1.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	55 °C	55 °C
Poff	8 W	8 W
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РТО	29 W	29 W
PSB	29 W	29 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.21 kW	1.30 kW
Annual energy consumption Qhe	3139 kWh	3837 kWh



Model: VWL 65/6 A 230V S3

Configure model		
Model name VWL 65/6 A 230V S3		
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

COP

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.12 kW	5.80 kW
El input	1.10 kW	2.00 kW

2.89

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

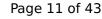
4.66



EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	50 dB(A)	57 dB(A)

EN 14825			
Low temperature Medium tem			
η_{s}	229 %	162 %	
Prated	5.31 kW	5.98 kW	
SCOP	5.81	4.12	
Tbiv	2 °C	2 °C	
TOL	2 °C	2 °C	
Pdh Tj = +2°C	5.31 kW	5.98 kW	
COP Tj = +2°C	3.46	2.33	
Cdh Tj = +2 °C	0.98	0.99	
Pdh Tj = +7°C	4.12 kW	3.72 kW	
COP Tj = +7°C	5.49	3.50	
Cdh Tj = +7 °C	0.96	0.97	
Pdh Tj = 12°C	3.67 kW	3.52 kW	
COP Tj = 12°C	7.40	5.58	
Cdh Tj = +12 °C	0.95	0.96	
Pdh Tj = Tbiv	5.31 kW	5.98 kW	

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COP Tj = Tbiv	3.46	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.31 kW	5.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.46	2.33
WTOL	55 °C	55 °C
Poff	8 W	8 W
РТО	29 W	29 W
PSB	29 W	29 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1222 kWh	1938 kWh

Colder Climate

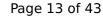
EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	50 dB(A)	57 dB(A)

EN 14825		
Low temperature	Medium temperature	
162 %	121 %	
5.97 kW	5.51 kW	
	162 %	





•	_	
SCOP	4.13	3.10
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	3.58 kW	3.27 kW
COP Tj = -7°C	3.45	2.55
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = $+2$ °C	2.75 kW	2.58 kW
COP Tj = +2°C	5.17	3.80
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = $+7^{\circ}$ C	3.16 kW	3.07 kW
$COPTj = +7^{\circ}C$	6.64	5.07
Cdh Tj = +7 °C	0.940	0.960
Pdh Tj = 12°C	3.69 kW	3.60 kW
COP Tj = 12°C	7.77	6.57
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	4.87 kW	4.50 kW
COP Tj = Tbiv	2.57	1.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.10 kW	3.76 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.23	1.58
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh		
WTOL	55 °C	55 °C



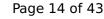


Poff	8 W	8 W
PTO	29 W	29 W
PSB	29 W	29 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.97 kW	5.51 kW
Annual energy consumption Qhe	3560 kWh	4385 kWh
Pdh Tj = -15°C (if TOL<-20°C)		
COP Tj = -15°C (if TOL $<$ -20°C)		
Cdh Tj = -15 °C		

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	50 dB(A)	57 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{S}	186 %	136 %
Prated	6.73 kW	6.26 kW
SCOP	4.71	3.47





Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.96 kW	5.54 kW
COP Tj = -7°C	3.01	2.14
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = $+2^{\circ}$ C	3.67 kW	3.63 kW
COP Tj = +2°C	4.62	3.39
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = $+7^{\circ}$ C	3.12 kW	3.01 kW
$COP Tj = +7^{\circ}C$	6.36	4.67
Cdh Tj = $+7$ °C	0.950	0.960
Pdh Tj = 12°C	3.69 kW	3.57 kW
COP Tj = 12°C	7.82	6.19
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	5.96 kW	5.54 kW
COP Tj = Tbiv	3.01	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.52 kW	5.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	55 °C	55 °C
Poff	8 W	8 W



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РТО	29 W	29 W
PSB	29 W	29 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.21 kW	1.21 kW
Annual energy consumption Qhe	2951 kWh	3731 kWh

Model: VWL 75/6 A 230V

Configure model		
Model name	VWL 75/6 A 230V	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.57 kW	4.95 kW	
El input	0.95 kW	1.68 kW	
СОР	4.79	2.93	

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 outdoor	53 dB(A)	55 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	237 %	163 %
Prated	6.77 kW	6.60 kW
SCOP	5.99	4.14
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.77 kW	6.60 kW
COP Tj = +2°C	3.23	2.23
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.14 kW	4.52 kW
$COP Tj = +7^{\circ}C$	5.52	3.47
Cdh Tj = +7 °C	0.96	0.98
Pdh Tj = 12°C	3.75 kW	3.56 kW
COP Tj = 12°C	7.65	5.68
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	6.77 kW	6.60 kW

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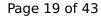


3.23	2.23
6.77 kW	6.60 kW
3.23	2.23
0.99	0.99
70 °C	70 °C
8 W	8 W
29 W	29 W
29 W	29 W
o w	0 W
Electricity	Electricity
0.00 kW	0.00 kW
1510 kWh	2128 kWh
	6.77 kW 3.23 0.99 70 °C 8 W 29 W 0 W Electricity 0.00 kW

Colder Climate

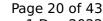
EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	160 %	118 %





This information was gene	ated by the HE KLIMA	ink database on 1 Dec 2022
Prated	5.85 kW	5.39 kW
SCOP	4.07	3.03
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.51 kW	3.69 kW
COP Tj = -7° C	3.31	2.53
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = $+2$ °C	2.73 kW	2.55 kW
COP Tj = +2°C	5.01	3.62
Cdh Tj = $+2$ °C	0.950	0.960
Pdh Tj = $+7^{\circ}$ C	3.19 kW	3.08 kW
$COP Tj = +7^{\circ}C$	6.82	5.05
Cdh Tj = $+7$ °C	0.940	0.950
Pdh Tj = 12°C	3.78 kW	3.64 kW
COP Tj = 12°C	8.52	6.54
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	4.77 kW	4.40 kW
COP Tj = Tbiv	2.60	1.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.94 kW	4.57 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.08	1.53
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
	-	



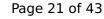


WTOL	70 °C	70 °C
Poff	8 W	8 W
PTO	29 W	29 W
PSB	29 W	29 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.85 kW	5.39 kW
Annual energy consumption Qhe	3546 kWh	4380 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.77	4.40
COP Tj = -15°C (if TOL $<$ -20°C)	2.60	1.90
Cdh Tj = -15 °C	0.980	0.990

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	185 %	134 %
Prated	6.60 kW	6.13 kW





SCOP	4.69	3.43
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.84 kW	5.42 kW
COP Tj = -7°C	2.72	2.13
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.72 kW	3.46 kW
COP Tj = +2°C	4.68	3.36
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = +7°C	3.18 kW	3.00 kW
$COPTj = +7^{\circ}C$	6.38	4.60
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.74 kW	3.59 kW
COP Tj = 12°C	7.88	6.18
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	6.27 kW	5.42 kW
COP Tj = Tbiv	2.64	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.27 kW	4.88 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	70 °C	70 °C



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Poff	8 W	8 W
PTO	29 W	29 W
PSB	29 W	29 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	1.25 kW
Annual energy consumption Qhe	2907 kWh	3688 kWh



Model: VWL 75/6 A 230V S2

Configure model		
Model name	VWL 75/6 A 230V S2	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

EN 14511-2

Heating

4.79

COP

	Low temperature	Medium temperature
Heat output	4.57 kW	4.95 kW
El input	0.95 kW	1.68 kW

2.93

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 outdoor	53 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	231 %	160 %
Prated	6.77 kW	6.60 kW
SCOP	5.85	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.77 kW	6.60 kW
COP Tj = +2°C	3.23	2.23
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.14 kW	4.52 kW
COP Tj = +7°C	5.52	3.47
Cdh Tj = +7 °C	0.96	0.98
Pdh Tj = 12°C	3.75 kW	3.56 kW
COP Tj = 12°C	7.65	5.68
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	6.77 kW	6.60 kW

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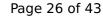


COP Tj = Tbiv	3.23	2.23
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.77 kW	6.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.23	2.23
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	70 °C	70 °C
Poff	8 W	8 W
РТО	29 W	29 W
PSB	29 W	29 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1546 kWh	2164 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	159 %	118 %





This information was generated by the HP KEYMARK database on 1 Dec 2022			
Prated	5.85 kW	5.39 kW	
SCOP	4.05	3.02	
Tbiv	-15 °C	-15 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	3.51 kW	3.69 kW	
COP Tj = -7°C	3.31	2.53	
Cdh Tj = -7 °C	0.970	0.980	
Pdh Tj = +2°C	2.73 kW	2.55 kW	
COP Tj = +2°C	5.01	3.62	
Cdh Tj = +2 °C	0.950	0.960	
Pdh Tj = $+7$ °C	3.19 kW	3.08 kW	
$COPTj = +7^{\circ}C$	6.82	5.05	
Cdh Tj = +7 °C	0.940	0.950	
Pdh Tj = 12°C	3.78 kW	3.64 kW	
COP Tj = 12°C	8.52	6.54	
Cdh Tj = +12 °C	0.940	0.950	
Pdh Tj = Tbiv	4.77 kW	4.40 kW	
COP Tj = Tbiv	2.60	1.90	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.94 kW	4.57 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.08	1.53	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990	

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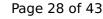


WTOL	70 °C	70 °C
Poff	8 W	8 W
РТО	29 W	29 W
PSB	29 W	29 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.85 kW	5.39 kW
Annual energy consumption Qhe	3565 kWh	4398 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.77	4.40
COP Tj = -15°C (if TOL $<$ -20°C)	2.60	1.90
Cdh Tj = -15 °C	0.980	0.990

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	55 dB(A)

	EN 14825		
Low temperature	Medium temperature		
183 %	133 %		
6.60 kW	6.13 kW		
	183 %		





SCOP	4.69	3.41
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.84 kW	5.42 kW
COP Tj = -7°C	2.72	2.13
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.72 kW	3.46 kW
COP Tj = +2°C	4.68	3.36
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = +7°C	3.18 kW	3.00 kW
COP Tj = +7°C	6.38	4.60
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.74 kW	3.59 kW
COP Tj = 12°C	7.88	6.18
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	6.27 kW	5.42 kW
COP Tj = Tbiv	2.64	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.27 kW	4.88 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	70 °C	70 °C



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Poff	8 W	8 W
РТО	29 W	29 W
PSB	29 W	29 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	1.25 kW
Annual energy consumption Qhe	2937 kWh	3718 kWh

Model: VWL 65/6 A 230V

Configure model		
Model name	VWL 65/6 A 230V	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.48 kW	4.94 kW	
El input	0.94 kW	1.69 kW	
СОР	4.78	2.93	

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 outdoor	53 dB(A)	55 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	232 %	164 %
Prated	5.71 kW	6.10 kW
SCOP	5.87	4.16
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.71 kW	6.10 kW
COP Tj = +2°C	3.29	2.29
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	3.73 kW	4.28 kW
COP Tj = +7°C	5.59	3.58
Cdh Tj = +7 °C	0.960	0.980
Pdh Tj = 12°C	3.64 kW	3.51 kW
COP Tj = 12°C	7.36	5.59
Cdh Tj = +12 °C	0.950	0.960
Pdh Tj = Tbiv	5.71 kW	6.10 kW

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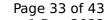


COP Tj = Tbiv	3.29	2.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.71 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.29	2.29
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	55 °C	55 °C
Poff	8 W	8 W
РТО	29 W	29 W
PSB	29 W	29 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1299 kWh	1956 kWh

Colder Climate

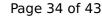
EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	53 dB(A)	55 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{S}	162 %	117 %





This information was gener	ated by the HE KEIMA	ink database on 1 Dec 2022
Prated	4.25 kW	3.92 kW
SCOP	4.11	3.00
Tbiv	-20 °C	-20 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7° C	2.81 kW	2.28 kW
$COP Tj = -7^{\circ}C$	3.51	2.43
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = $+2$ °C	2.71 kW	2.53 kW
COP Tj = +2°C	5.06	3.72
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = $+7^{\circ}$ C	3.10 kW	3.01 kW
$COPTj = +7^{\circ}C$	6.39	4.89
Cdh Tj = $+7$ °C	0.950	0.960
Pdh Tj = 12°C	3.69 kW	3.58 kW
COP Tj = 12°C	7.84	6.44
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	4.03 kW	3.71 kW
COP Tj = Tbiv	2.20	1.59
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.03 kW	3.71 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	1.59
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.980	0.990





WTOL	55 °C	55 °C
Poff	8 W	8 W
РТО	29 W	29 W
PSB	29 W	29 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.25 kW	3.92 kW
Annual energy consumption Qhe	2549 kWh	3219 kWh
Pdh Tj = -15°C (if TOL<-20°C)		
COP Tj = -15°C (if TOL $<$ -20°C)		
Cdh Tj = -15 °C		

Average Climate

EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	53 dB(A)	55 dB(A)	

EN 14825			
Low temperature Medium temperat			
188 %	131 %		
5.75 kW	4.49 kW		
	Low temperature 188 %		





SCOP	4.76	3.35
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.19 kW	3.89 kW
COP Tj = -7°C	3.10	2.19
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	3.01 kW	2.57 kW
COP Tj = +2°C	4.73	3.25
Cdh Tj = +2 °C	0.960	0.960
Pdh Tj = +7°C	3.09 kW	2.95 kW
$COP Tj = +7^{\circ}C$	6.17	4.48
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.66 kW	3.56 kW
COP Tj = 12°C	7.60	6.06
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	5.37 kW	4.84 kW
COP Tj = Tbiv	2.78	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.37 kW	4.84 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	55 °C	55 °C



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Poff	8 W	8 W
PTO	29 W	29 W
PSB	29 W	29 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	2494 kWh	2766 kWh



Model: VWL 65/6 A 230V S2

Configure model		
Model name VWL 65/6 A 230V S2		
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	nate 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	4.48 kW	4.94 kW	
El input	0.94 kW	1.69 kW	
СОР	4.78	2.93	

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 outdoor	53 dB(A)	55 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	226 %	161 %
Prated	5.71 kW	6.10 kW
SCOP	5.71	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.71 kW	6.10 kW
COP Tj = +2°C	3.29	2.29
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	3.73 kW	4.28 kW
COP Tj = +7°C	5.59	3.58
Cdh Tj = +7 °C	0.960	0.980
Pdh Tj = 12°C	3.64 kW	3.51 kW
COP Tj = 12°C	7.36	5.59
Cdh Tj = +12 °C	0.950	0.960
Pdh Tj = Tbiv	5.71 kW	6.10 kW

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COP Tj = Tbiv	3.29	2.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.71 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.29	2.29
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	55 °C	55 °C
Poff	8 W	8 W
РТО	29 W	29 W
PSB	29 W	29 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1335 kWh	1993 kWh

Colder Climate

EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	53 dB(A)	55 dB(A)	

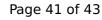
EN 14825		
	Low temperature	Medium temperature
η_{S}	160 %	116 %





Prated	4.25 kW	3.92 kW
SCOP	4.08	2.98
Tbiv	-20 °C	-20 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	2.81 kW	2.28 kW
$COP Tj = -7^{\circ}C$	3.51	2.43
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = +2°C	2.71 kW	2.53 kW
$COPTj = +2^{\circ}C$	5.06	3.72
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = $+7^{\circ}$ C	3.10 kW	3.01 kW
$COPTj = +7^{\circ}C$	6.39	4.89
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.69 kW	3.58 kW
COP Tj = 12°C	7.84	6.44
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	4.03 kW	3.71 kW
COP Tj = Tbiv	2.20	1.59
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.03 kW	3.71 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	1.59
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.980	0.990
	-	

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WTOL	55 °C	55 °C
Poff	8 W	8 W
РТО	29 W	29 W
PSB	29 W	29 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.25 kW	3.92 kW
Annual energy consumption Qhe	2567 kWh	3237 kWh
Pdh Tj = -15°C (if TOL<-20°C)		
COP Tj = -15°C (if TOL $<$ -20°C)		
Cdh Tj = -15 °C		

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	53 dB(A)	55 dB(A)	

Low temperature	Medium temperature
185 %	130 %
5.75 kW	4.49 kW
_	185 %





SCOP	4.71	3.32
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.19 kW	3.89 kW
COP Tj = -7°C	3.10	2.19
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	3.01 kW	2.57 kW
COPTj = +2°C	4.73	3.25
Cdh Tj = +2 °C	0.960	0.960
Pdh Tj = $+7$ °C	3.09 kW	2.95 kW
$COPTj = +7^{\circ}C$	6.17	4.48
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.66 kW	3.56 kW
COP Tj = 12°C	7.60	6.06
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	5.37 kW	4.84 kW
COP Tj = Tbiv	2.78	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.37 kW	4.84 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	55 °C	55 °C



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Poff	8 W	8 W
РТО	29 W	29 W
PSB	29 W	29 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	2524 kWh	2796 kWh