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Summary of	VWL 55/6 A 230V	Reg. No.	40050984	
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	VDE Prüf- und Zertifizierungsinstitut GmbH		
Subtype title	VWL 55/6 A 230V			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R290			
Mass of Refrigerant	0.6 kg			
Certification Date	12.11.2021			
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 55/6 A 230V

Configure model		
Model name	VWL 55/6 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	3.36 kW	4.83 kW
El input	0.69 kW	1.71 kW
СОР	4.80	2.80

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	51 dB(A)	54 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	233 %	157 %
Prated	4.96 kW	5.07 kW
SCOP	5.89	3.99
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.96 kW	5.07 kW
COP Tj = +2°C	3.35	2.30
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.42 kW	3.08 kW
COP Tj = +7°C	5.45	3.43
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	2.59 kW	2.42 kW
COP Tj = 12°C	7.25	5.17
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	4.96 kW	5.07 kW

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3.35	2.30
l.96 kW	5.07 kW
3.35	2.30
′0 °C	70 °C
3 W	8 W
.7 W	17 W
.7 W	17 W
) W	0 W
Electricity	Electricity
).00 kW	0.00 kW
.125 kWh	1697 kWh
77 77	35 O °C W W W W ectricity 00 kW

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	51 dB(A)	54 dB(A)	

EN 14825		
Low temperature	Medium temperature	
158 %	116 %	
5.01 kW	4.76 kW	
	Low temperature	





SCOP	4.02	2.98
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	3.22 kW	2.89 kW
COP Tj = -7°C	3.36	2.45
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	1.92 kW	1.85 kW
COP Tj = +2°C	5.04	3.65
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = +7°C	2.33 kW	2.21 kW
$COPTj = +7^{\circ}C$	6.82	5.01
Cdh Tj = +7 °C	0.960	0.960
Pdh Tj = 12°C	2.62 kW	2.56 kW
COP Tj = 12°C	7.24	6.46
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	4.09 kW	3.88 kW
COP Tj = Tbiv	2.13	1.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.04 kW	3.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.00	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh		
WTOL	70 °C	70 °C





Poff	8 W	8 W
РТО	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.01 kW	4.76 kW
Annual energy consumption Qhe	3076 kWh	3930 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.09	3.88
COP Tj = -15 °C (if TOL< -20 °C)	2.13	1.67
Cdh Tj = -15 °C	0.990	0.990

Average Climate

EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	51 dB(A)	54 dB(A)	

Low temperature	Medium temperature
183 %	130 %
4.81 kW	4.88 kW
4.66	3.33





	<u> </u>	<u> </u>
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.26 kW	4.32 kW
$COPTj = -7^{\circ}C$	2.78	2.11
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = $+2$ °C	2.70 kW	2.46 kW
COP Tj = +2°C	4.62	3.19
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = $+7^{\circ}$ C	2.29 kW	2.12 kW
$COPTj = +7^{\circ}C$	6.41	4.40
Cdh Tj = $+7$ °C	0.960	0.970
Pdh Tj = 12°C	2.61 kW	2.52 kW
COP Tj = 12°C	7.61	6.03
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	4.26 kW	4.63 kW
COP Tj = Tbiv	2.78	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.13 kW	4.63 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.43	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	70 °C	70 °C
Poff	8 W	8 W
	+	•



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РТО	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.68 kW	0.25 kW
Annual energy consumption Qhe	2135 kWh	3029 kWh



Model: VWL 55/6 A 230V S2

Configure model		
Model name	VWL 55/6 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	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	3.36 kW	4.83 kW	
El input	0.69 kW	1.71 kW	
СОР	4.80	2.80	

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

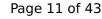
Warmer Climate



EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	51 dB(A)	54 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	225 %	153 %
Prated	4.96 kW	5.07 kW
SCOP	5.71	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.96 kW	5.07 kW
COP Tj = +2°C	3.35	2.30
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.42 kW	3.08 kW
$COP Tj = +7^{\circ}C$	5.45	3.43
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	2.59 kW	2.42 kW
COP Tj = 12°C	7.25	5.17
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	4.96 kW	5.07 kW
	1	•

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COP Tj = Tbiv	3.35	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.96 kW	5.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.35	2.30
WTOL	70 °C	70 °C
Poff	8 W	8 W
РТО	17 W	17 W
PSB	17 W	17 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	1161 kWh	1733 kWh

Colder Climate

EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	51 dB(A)	54 dB(A)	

EN 14825		
Low temperature	Medium temperature	
157 %	116 %	
5.01 kW	4.76 kW	
	Low temperature 157 %	





SCOP	3.99	2.97
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.22 kW	2.89 kW
COP Tj = -7°C	3.36	2.45
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = $+2^{\circ}$ C	1.92 kW	1.85 kW
COP Tj = +2°C	5.04	3.65
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = $+7^{\circ}$ C	2.33 kW	2.21 kW
$COPTj = +7^{\circ}C$	6.82	5.01
Cdh Tj = +7 °C	0.960	0.960
Pdh Tj = 12°C	2.62 kW	2.56 kW
COP Tj = 12°C	7.24	6.46
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	4.09 kW	3.88 kW
COP Tj = Tbiv	2.13	1.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.04 kW	3.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.00	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	70 °C	70 °C



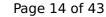


Poff	8 W	8 W
РТО	17 W	17 W
PSB	17 W	17 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.01 kW	4.76 kW
Annual energy consumption Qhe	3094 kWh	3948 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.09	3.88
COP Tj = -15°C (if TOL $<$ -20°C)	2.13	1.67
Cdh Tj = -15 °C	0.990	0.990

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	181 %	129 %
Prated	4.81 kW	4.88 kW
SCOP	4.59	3.30





Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.26 kW	4.32 kW
$COPTj = -7^{\circ}C$	2.78	2.11
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	2.70 kW	2.46 kW
COP Tj = +2°C	4.62	3.19
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = $+7^{\circ}$ C	2.29 kW	2.12 kW
$COPTj = +7^{\circ}C$	6.41	4.40
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	2.61 kW	2.52 kW
COP Tj = 12°C	7.61	6.03
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	4.26 kW	4.63 kW
COP Tj = Tbiv	2.78	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.13 kW	4.63 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.43	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	70 °C	70 °C
Poff	8 W	8 W
	+	•



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РТО	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.69 kW	0.25 kW
Annual energy consumption Qhe	2165 kWh	3059 kWh



Model: VWL 55/6 A 230V S3

Configure model		
Model name VWL 55/6 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

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.21 kW	4.83 kW	
El input	0.95 kW	1.71 kW	
СОР	4.39	2.80	

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	52 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	215 %	157 %
Prated	4.75 kW	5.07 kW
SCOP	5.44	3.99
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.75 kW	5.07 kW
COP Tj = +2°C	3.22	2.30
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.33 kW	3.08 kW
COP Tj = +7°C	5.07	3.43
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	2.48 kW	2.42 kW
COP Tj = 12°C	6.61	5.17
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	4.75 kW	5.07 kW

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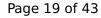


COP Tj = Tbiv	3.22	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.75 kW	5.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.22	2.30
WTOL	55 °C	55 °C
Poff	8 W	8 W
РТО	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1166 kWh	1697 kWh

Colder Climate

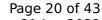
EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	54 dB(A)

EN 14825		
Low temperature	Medium temperature	
148 %	116 %	
4.68 kW	4.76 kW	
-	148 %	





SCOP	3.77	2.98
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	2.69 kW	2.89 kW
COP Tj = -7°C	3.26	2.45
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	1.90 kW	1.85 kW
COP Tj = +2°C	4.66	3.65
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = +7°C	2.22 kW	2.21 kW
$COPTj = +7^{\circ}C$	6.04	5.01
Cdh Tj = +7 °C	0.960	0.960
Pdh Tj = 12°C	2.49 kW	2.56 kW
COP Tj = 12°C	6.79	6.46
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	3.82 kW	3.88 kW
COP Tj = Tbiv	2.01	1.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.70 kW	3.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.88	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh		
WTOL	55 °C	55 °C





Poff	8 W	8 W
РТО	17 W	17 W
PSB	17 W	17 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.68 kW	4.76 kW
Annual energy consumption Qhe	3064 kWh	3930 kWh
Pdh Tj = -15°C (if TOL<-20°C)	3.82	3.88
COP Tj = -15°C (if TOL $<$ -20°C)	2.01	1.67
Cdh Tj = -15 °C	0.990	0.990

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	54 dB(A)

EN 14825		
ature Medium temperature		
130 %		
4.88 kW		
3.33		





Inis information was generated by the HP KEYMARK database on 21 Jun 2022			
Tbiv	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	3.93 kW	4.32 kW	
$COP Tj = -7^{\circ}C$	2.79	2.11	
Cdh Tj = -7 °C	0.990	0.990	
Pdh Tj = +2°C	2.17 kW	2.46 kW	
COP Tj = +2°C	4.46	3.19	
Cdh Tj = +2 °C	0.970	0.980	
Pdh Tj = +7°C	2.26 kW	2.12 kW	
$COPTj = +7^{\circ}C$	5.99	4.40	
Cdh Tj = +7 °C	0.960	0.960	
Pdh Tj = 12°C	2.54 kW	2.52 kW	
COP Tj = 12°C	7.16	6.03	
Cdh Tj = +12 °C	0.960	0.960	
Pdh Tj = Tbiv	4.42 kW	4.63 kW	
COP Tj = Tbiv	2.21	1.86	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.42 kW	4.63 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.21	1.86	
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	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.03 kW	0.25 kW
Annual energy consumption Qhe	2045 kWh	3029 kWh

Model: VWL 35/6 A 230V

Configure model		
Model name	VWL 35/6 A 230V	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

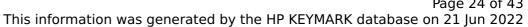
General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.32 kW	4.79 kW	
El input	0.69 kW	1.71 kW	
СОР	4.80	2.80	

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	51 dB(A)	54 dB(A)		

EN 14825		
	Low temperature	Medium temperature
η_{s}	208 %	153 %
Prated	3.53 kW	3.55 kW
SCOP	5.29	3.89
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.53 kW	3.55 kW
COP Tj = +2°C	3.42	2.31
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	2.18 kW	2.44 kW
COP Tj = +7°C	4.97	3.37
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	2.40 kW	2.37 kW
COP Tj = 12°C	6.45	5.11
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	3.53 kW	3.55 kW

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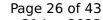


COP Tj = Tbiv	3.42	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.53 kW	3.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.42	2.31
WTOL	55 °C	55 °C
Poff	8 W	8 W
РТО	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	892 kWh	1219 kWh

Colder Climate

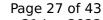
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	51 dB(A)	54 dB(A)	

	EN 14825		
Low temperature	Medium temperature		
147 %	108 %		
3.34 kW	3.15 kW		
_	147 %		





SCOP	3.75	2.78
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	2.11 kW	1.92 kW
COP Tj = -7°C	3.34	2.25
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	1.78 kW	1.71 kW
COP Tj = +2°C	4.45	3.46
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = +7°C	2.16 kW	2.09 kW
$COP Tj = +7^{\circ}C$	6.23	4.71
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	2.49 kW	2.44 kW
COP Tj = 12°C	7.22	6.17
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	2.72 kW	2.57 kW
COP Tj = Tbiv	2.16	1.61
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.69 kW	2.43 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.06	1.46
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh		
WTOL	55 °C	55 °C



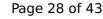


Poff	8 W	8 W
РТО	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.34 kW	3.15 kW
Annual energy consumption Qhe	2192 kWh	2787 kWh
Pdh Tj = -15°C (if TOL<-20°C)		
COP Tj = -15°C (if TOL $<$ -20°C)		
Cdh Tj = -15 °C		

Average Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level outdoor	51 dB(A)	54 dB(A)		

EN 14825		
Low temperature	Medium temperature	
177 %	124 %	
4.19 kW	4.18 kW	
4.50	3.18	
	Low temperature 177 % 4.19 kW	





Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.71 kW	3.69 kW
COP Tj = -7°C	3.04	2.08
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	2.18 kW	2.32 kW
$COP Tj = +2^{\circ}C$	4.40	3.01
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = $+7^{\circ}$ C	2.15 kW	2.03 kW
$COP Tj = +7^{\circ}C$	5.96	4.28
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	2.41 kW	2.42 kW
COP Tj = 12°C	7.04	5.84
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	3.71 kW	3.69 kW
COP Tj = Tbiv	3.04	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.34 kW	3.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	1.81
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	17 W	17 W
PSB	17 W	17 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.85 kW	0.87 kW
Annual energy consumption Qhe	1923 kWh	2715 kWh

Model: VWL 35/6 A 230V S2

Configure model		
Model name	VWL 35/6 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		

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.32 kW	4.79 kW
El input	0.69 kW	1.71 kW
СОР	4.80	2.80

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	51 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	200 %	148 %
Prated	3.53 kW	3.55 kW
SCOP	5.08	3.78
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.53 kW	3.55 kW
COP Tj = +2°C	3.42	2.31
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	2.18 kW	2.44 kW
COP Tj = +7°C	4.97	3.37
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	2.40 kW	2.37 kW
COP Tj = 12°C	6.45	5.11
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	3.53 kW	3.55 kW

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COP Tj = Tbiv	3.42	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.53 kW	3.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.42	2.31
WTOL	55 °C	55 °C
Poff	8 W	8 W
РТО	17 W	17 W
PSB	17 W	17 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	928 kWh	1255 kWh

Colder Climate

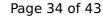
EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	146 %	108 %
Prated	3.34 kW	3.15 kW
		I





SCOP	3.72	2.77
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	2.11 kW	1.92 kW
COP Tj = -7°C	3.34	2.25
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = $+2$ °C	1.78 kW	1.71 kW
COP Tj = +2°C	4.45	3.46
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = $+7^{\circ}$ C	2.16 kW	2.09 kW
$COP Tj = +7^{\circ}C$	6.23	4.71
Cdh Tj = $+7$ °C	0.960	0.970
Pdh Tj = 12°C	2.49 kW	2.44 kW
COP Tj = 12°C	7.22	6.17
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	2.72 kW	2.57 kW
COP Tj = Tbiv	2.16	1.61
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.69 kW	2.43 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.06	1.46
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh		
WTOL	55 °C	55 °C



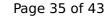


Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.34 kW	3.15 kW
Annual energy consumption Qhe	2210 kWh	2805 kWh
Pdh Tj = -15°C (if TOL<-20°C)		
COP Tj = -15°C (if TOL $<$ -20°C)		
Cdh Tj = -15 °C		

Average Climate

EN 12102-1				
Low temperature Medium temperature				
Sound power level outdoor	51 dB(A)	54 dB(A)		

EN 14825		
Low temperature	Medium temperature	
174 %	123 %	
4.19 kW	4.18 kW	
4.43	3.14	
	Low temperature 174 % 4.19 kW	





This information was gener	aced by the Hi KETHA	NK database on 21 Juli 2022
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7° C	3.71 kW	3.69 kW
$COP Tj = -7^{\circ}C$	3.04	2.08
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	2.18 kW	2.32 kW
COP Tj = +2°C	4.40	3.01
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	2.15 kW	2.03 kW
$COPTj = +7^{\circ}C$	5.96	4.28
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	2.41 kW	2.42 kW
COP Tj = 12°C	7.04	5.84
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	3.71 kW	3.69 kW
COP Tj = Tbiv	3.04	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.34 kW	3.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	1.81
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	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.85 kW	0.87 kW
Annual energy consumption Qhe	1953 kWh	2745 kWh

Model: VWL 45/6 A 230V S3

Configure model		
Model name	VWL 45/6 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

EN 14511-2				
Low temperature Medium temperature				
Heat output	4.07 kW	3.64 kW		
El input	0.89 kW	1.28 kW		
СОР	4.59	2.83		

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

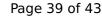
Warmer Climate



EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	50 dB(A)	52 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	220 %	155 %
Prated	3.40 kW	3.43 kW
SCOP	5.57	3.94
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.44 kW	3.43 kW
COP Tj = +2°C	3.36	2.28
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	2.33 kW	2.16 kW
COP Tj = +7°C	5.21	3.39
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	2.57 kW	2.45 kW
COP Tj = 12°C	7.00	5.25
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	3.44 kW	3.43 kW

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COP Tj = Tbiv	3.36	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.44 kW	3.43 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.36	2.28
WTOL	75 °C	75 °C
Poff	8 W	8 W
РТО	17 W	17 W
PSB	17 W	17 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	815 kWh	1164 kWh

Colder Climate

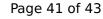
EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	50 dB(A)	52 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	152 %	113 %
Prated	4.00 kW	3.48 kW
	I	





SCOP	3.87	2.90
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	2.42 kW	2.12 kW
$COP Tj = -7^{\circ}C$	3.26	2.40
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = $+2$ °C	1.92 kW	1.76 kW
COP Tj = +2°C	4.80	3.53
Cdh Tj = $+2$ °C	0.960	0.970
Pdh Tj = $+7^{\circ}$ C	2.26 kW	2.14 kW
$COPTj = +7^{\circ}C$	6.27	4.81
Cdh Tj = $+7$ °C	0.960	0.970
Pdh Tj = 12°C	2.59 kW	2.57 kW
COP Tj = 12°C	7.39	6.27
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	3.11 kW	2.84 kW
COP Tj = Tbiv	2.37	1.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.66 kW	2.41 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.02	1.47
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	75 °C	75 °C





Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	3.48 kW
Annual energy consumption Qhe	2543 kWh	2959 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)	52 dB(A)

EN 14825		
Low temperature	Medium temperature	
180 %	131 %	
4.13 kW	4.22 kW	
4.56	3.34	
	Low temperature 180 % 4.13 kW	





Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.65 kW	3.73 kW
COP Tj = -7°C	2.97	2.12
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = $+2$ °C	2.20 kW	2.28 kW
COP Tj = +2°C	4.48	3.24
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	2.23 kW	2.11 kW
COP Tj = +7°C	6.02	4.45
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	2.59 kW	2.54 kW
COP Tj = 12°C	7.39	5.97
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	3.65 kW	3.73 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.65 kW	3.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	75 °C	75 °C
Poff	8 W	8 W



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PTO	17 W	17 W
PSB	17 W	17 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.48 kW	0.87 kW
Annual energy consumption Qhe	1870 kWh	2606 kWh