



Heat Pump Keymark  
Certification Body  
GEN 025

## Certificazione di Prodotto Product Certification

Certificato N. **ICIM-PDC-000191**  
Certificate No.

TITOLARE DEL CERTIFICATO / CERTIFICATE HOLDER

**Bosch Thermotechnik GmbH (Buderus)**

Sophienstraße 30-32  
35576 Wetzlar - Germany

UNITÀ PRODUTTIVE / PRODUCTION SITES

2022101401DB - IT

PRODOTTI / PRODUCT

**POMPE DI CALORE  
HEAT PUMPS**

PRODOTTO-TIPO  
PRODUCT TYPE

**Aria/Acqua  
Air/Water**

BRAND

**Buderus**

SOTTO-TIPO  
SUBTYPE

**Logatherm WLW276 16/19/24**

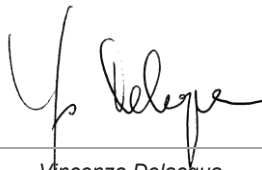
MODELLI  
MODEL(S)

**WLW276 16 ; WLW276 16 IP ; WLW276 16 P  
WLW276 16 V ; WLW276 19 ; WLW276 19 IP  
WLW276 19 P ; WLW276 19 V ; WLW276 24  
WLW276 24 IP ; WLW276 24 P ; WLW276 24 V**

CONFORMEMENTE ALLA NORMA ED AL DOCUMENTO NORMATIVO ICIM  
IN COMPLIANCE WITH THE STANDARD AND WITH ICIM NORMATIVE DOCUMENT

**EN 14511:2018, EN 14825:2018, EN 12102-1:2017,  
KEYMARK Certification Scheme for Heat Pumps, ICIM 0440CS**

Il presente Certificato autorizza il titolare all' utilizzo del marchio di conformità KEYMARK insieme al numero di registrazione specificato. Si veda il database KEYMARK per le informazioni dettagliate - Per verificare la validità del certificato si consulti [www.icim.it](http://www.icim.it)  
This certificate entitles the holder to use the KEYMARK mark of conformity in conjunction with the specified registration number. See HP KEYMARK database for detailed information - To check the validity of this certificate please visit [www.icim.it](http://www.icim.it)



Vincenzo Delacqua  
Rappresentante Direzione / Management Representative

**ICIM S.p.A.**

PRIMA EMISSIONE  
FIRST ISSUE

**23/01/2023**

EMISSIONE CORRENTE  
CURRENT ISSUE

**23/01/2023**

DATA DI SCADENZA  
EXPIRING DATE

**22/01/2033**

This information was generated by the HP KEYMARK database on 30 Jan 2023

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Summary of	Buderus Logatherm WLW276 16/19/24	Reg. No.	ICIM-PDC-000191
Certificate Holder			
Name	Bosch Thermotechnik GmbH (Buderus)		
Address	Sophienstraße 30-32	Zip	35576
City	Wetzlar	Country	Germany
Certification Body	ICIM S.p.A.		
Subtype title	Buderus Logatherm WLW276 16/19/24		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	7.9 kg		
Certification Date	23.01.2023		
Testing basis	Heat Pump KEYMARK V11		

## Model: WLW276 16

Configure model	
Model name	WLW276 16
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	25.38 kW	23.06 kW
El input	5.81 kW	9.04 kW
COP	4.37	2.55

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

This information was generated by the HP KEYMARK database on 30 Jan 2023

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	75 dB(A)	75 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	173 %	127 %
Prated	19.42 kW	16.78 kW
SCOP	4.41	3.24
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	17.18 kW	13.04 kW
COP Tj = -7°C	2.63	1.93
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	11.61 kW	9.5 kW
COP Tj = +2°C	4.63	3.25
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	12.42 kW	11.1 kW
COP Tj = +7°C	5.49	4.4
Cdh Tj = +7 °C	0.98	0.98

This information was generated by the HP KEYMARK database on 30 Jan 2023

Pdh Tj = 12°C	14.75 kW	13.45 kW
COP Tj = 12°C	6.87	6.15
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	17.18 kW	14.2 kW
COP Tj = Tbiv	2.63	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.67 kW	9.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.35
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.9	0.9
WTOL	60 °C	60 °C
Poff	50 W	50 W
PTO	100 W	80 W
PSB	50 W	50 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.76 kW	7.63 kW
Annual energy consumption Qhe	9104 kWh	10709 kWh

## Model: WLW276 16 IP

Configure model	
Model name	WLW276 16 IP
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	25.38 kW	23.06 kW
El input	5.81 kW	9.04 kW
COP	4.37	2.55

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

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	75 dB(A)	75 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	173 %	127 %
Prated	19.42 kW	16.78 kW
SCOP	4.41	3.24
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	17.18 kW	13.04 kW
COP Tj = -7°C	2.63	1.93
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	11.61 kW	9.5 kW
COP Tj = +2°C	4.63	3.25
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	12.42 kW	11.1 kW
COP Tj = +7°C	5.49	4.4
Cdh Tj = +7 °C	0.98	0.98

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Pdh Tj = 12°C	14.75 kW	13.45 kW
COP Tj = 12°C	6.87	6.15
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	17.18 kW	14.2 kW
COP Tj = Tbiv	2.63	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.67 kW	9.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.35
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.9	0.9
WTOL	60 °C	60 °C
Poff	50 W	50 W
PTO	100 W	80 W
PSB	50 W	50 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.76 kW	7.63 kW
Annual energy consumption Qhe	9104 kWh	10709 kWh



## Model: WLW276 16 P

Configure model	
Model name	WLW276 16 P
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	25.38 kW	23.06 kW
El input	5.81 kW	9.04 kW
COP	4.37	2.55

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

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	75 dB(A)	75 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	173 %	127 %
Prated	19.42 kW	16.78 kW
SCOP	4.41	3.24
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	17.18 kW	13.04 kW
COP Tj = -7°C	2.63	1.93
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	11.61 kW	9.5 kW
COP Tj = +2°C	4.63	3.25
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	12.42 kW	11.1 kW
COP Tj = +7°C	5.49	4.4
Cdh Tj = +7 °C	0.98	0.98

This information was generated by the HP KEYMARK database on 30 Jan 2023

Pdh Tj = 12°C	14.75 kW	13.45 kW
COP Tj = 12°C	6.87	6.15
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	17.18 kW	14.2 kW
COP Tj = Tbiv	2.63	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.67 kW	9.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.35
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.9	0.9
WTOL	60 °C	60 °C
Poff	50 W	50 W
PTO	100 W	80 W
PSB	50 W	50 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.76 kW	7.63 kW
Annual energy consumption Qhe	9104 kWh	10709 kWh

## Model: WLW276 16 V

<b>Configure model</b>	
Model name	WLW276 16 V
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

<b>General Data</b>	
Power supply	3x400V 50Hz

### Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	25.38 kW	23.06 kW
El input	5.81 kW	9.04 kW
COP	4.37	2.55

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

### Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	75 dB(A)	75 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	173 %	127 %
Prated	19.42 kW	16.78 kW
SCOP	4.41	3.24
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	17.18 kW	13.04 kW
COP Tj = -7°C	2.63	1.93
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	11.61 kW	9.5 kW
COP Tj = +2°C	4.63	3.25
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	12.42 kW	11.1 kW
COP Tj = +7°C	5.49	4.4
Cdh Tj = +7 °C	0.98	0.98

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Pdh Tj = 12°C	14.75 kW	13.45 kW
COP Tj = 12°C	6.87	6.15
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	17.18 kW	14.2 kW
COP Tj = Tbiv	2.63	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.67 kW	9.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.35
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.9	0.9
WTOL	60 °C	60 °C
Poff	50 W	50 W
PTO	100 W	80 W
PSB	50 W	50 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.76 kW	7.63 kW
Annual energy consumption Qhe	9104 kWh	10709 kWh

## Model: WLW276 19

Configure model	
Model name	WLW276 19
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	30 kW	27.7 kW
El input	6.88 kW	11.49 kW
COP	4.36	2.41

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

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	78 dB(A)	78 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	172 %	126 %
Prated	22.5 kW	19.53 kW
SCOP	4.36	3.22
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	19.9 kW	15.95 kW
COP Tj = -7°C	2.6	1.94
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	12.43 kW	10.8 kW
COP Tj = +2°C	4.52	3.2
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	12.42 kW	11.47 kW
COP Tj = +7°C	5.46	4.41
Cdh Tj = +7 °C	0.98	0.98



This information was generated by the HP KEYMARK database on 30 Jan 2023

Pdh Tj = 12°C	14.76 kW	13.8 kW
COP Tj = 12°C	6.85	6.14
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	19.9 kW	16.52 kW
COP Tj = Tbiv	2.6	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.28 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.6	1.3
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.9	0.9
WTOL	60 °C	60 °C
Poff	50 W	50 W
PTO	100 W	80 W
PSB	50 W	50 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.21 kW	9.53 kW
Annual energy consumption Qhe	10646 kWh	12512 kWh

## Model: WLW276 19 IP

Configure model	
Model name	WLW276 19 IP
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	30 kW	27.7 kW
El input	6.88 kW	11.49 kW
COP	4.36	2.41

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

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	78 dB(A)	78 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	172 %	126 %
Prated	22.5 kW	19.53 kW
SCOP	4.36	3.22
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	19.9 kW	15.95 kW
COP Tj = -7°C	2.6	1.94
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	12.43 kW	10.8 kW
COP Tj = +2°C	4.52	3.2
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	12.42 kW	11.47 kW
COP Tj = +7°C	5.46	4.41
Cdh Tj = +7 °C	0.98	0.98

This information was generated by the HP KEYMARK database on 30 Jan 2023

Pdh Tj = 12°C	14.76 kW	13.8 kW
COP Tj = 12°C	6.85	6.14
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	19.9 kW	16.52 kW
COP Tj = Tbiv	2.6	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.28 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.6	1.3
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.9	0.9
WTOL	60 °C	60 °C
Poff	50 W	50 W
PTO	100 W	80 W
PSB	50 W	50 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.21 kW	9.53 kW
Annual energy consumption Qhe	10646 kWh	12512 kWh

## Model: WLW276 19 P

Configure model	
Model name	WLW276 19 P
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	30 kW	27.7 kW
El input	6.88 kW	11.49 kW
COP	4.36	2.41

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

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	78 dB(A)	78 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	172 %	126 %
Prated	22.5 kW	19.53 kW
SCOP	4.36	3.22
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	19.9 kW	15.95 kW
COP Tj = -7°C	2.6	1.94
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	12.43 kW	10.8 kW
COP Tj = +2°C	4.52	3.2
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	12.42 kW	11.47 kW
COP Tj = +7°C	5.46	4.41
Cdh Tj = +7 °C	0.98	0.98

This information was generated by the HP KEYMARK database on 30 Jan 2023

Pdh Tj = 12°C	14.76 kW	13.8 kW
COP Tj = 12°C	6.85	6.14
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	19.9 kW	16.52 kW
COP Tj = Tbiv	2.6	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.28 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.6	1.3
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.9	0.9
WTOL	60 °C	60 °C
Poff	50 W	50 W
PTO	100 W	80 W
PSB	50 W	50 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.21 kW	9.53 kW
Annual energy consumption Qhe	10646 kWh	12512 kWh

## Model: WLW276 19 V

<b>Configure model</b>	
Model name	WLW276 19 V
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

<b>General Data</b>	
Power supply	3x400V 50Hz

### Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	30 kW	27.7 kW
El input	6.88 kW	11.49 kW
COP	4.36	2.41

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

### Average Climate



<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	78 dB(A)	78 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	172 %	126 %
Prated	22.5 kW	19.53 kW
SCOP	4.36	3.22
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	19.9 kW	15.95 kW
COP Tj = -7°C	2.6	1.94
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	12.43 kW	10.8 kW
COP Tj = +2°C	4.52	3.2
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	12.42 kW	11.47 kW
COP Tj = +7°C	5.46	4.41
Cdh Tj = +7 °C	0.98	0.98

This information was generated by the HP KEYMARK database on 30 Jan 2023

Pdh Tj = 12°C	14.76 kW	13.8 kW
COP Tj = 12°C	6.85	6.14
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	19.9 kW	16.52 kW
COP Tj = Tbiv	2.6	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.28 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.6	1.3
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.9	0.9
WTOL	60 °C	60 °C
Poff	50 W	50 W
PTO	100 W	80 W
PSB	50 W	50 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.21 kW	9.53 kW
Annual energy consumption Qhe	10646 kWh	12512 kWh

## Model: WLW276 24

Configure model	
Model name	WLW276 24
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	35.78 kW	32.64 kW
El input	8.75 kW	14.01 kW
COP	4.09	2.33

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

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	78 dB(A)	78 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	169 %	124 %
Prated	25.5 kW	22.97 kW
SCOP	4.31	3.18
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	22.6 kW	18.82 kW
COP Tj = -7°C	2.6	1.89
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	13.25 kW	12.44 kW
COP Tj = +2°C	4.41	3.15
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	12.44 kW	11.48 kW
COP Tj = +7°C	5.44	4.4
Cdh Tj = +7 °C	0.98	0.98

This information was generated by the HP KEYMARK database on 30 Jan 2023

Pdh Tj = 12°C	14.77 kW	13.82 kW
COP Tj = 12°C	6.83	6.12
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	22.6 kW	19.44 kW
COP Tj = Tbiv	2.6	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	18.38 kW	11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.6	1.25
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.9	0.9
WTOL	60 °C	60 °C
Poff	50 W	50 W
PTO	100 W	80 W
PSB	50 W	50 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	7.17 kW	11.97 kW
Annual energy consumption Qhe	12250 kWh	14935 kWh

## Model: WLW276 24 IP

Configure model	
Model name	WLW276 24 IP
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	35.78 kW	32.64 kW
El input	8.75 kW	14.01 kW
COP	4.09	2.33

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

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	78 dB(A)	78 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	169 %	124 %
Prated	25.5 kW	22.97 kW
SCOP	4.31	3.18
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	22.6 kW	18.82 kW
COP Tj = -7°C	2.6	1.89
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	13.25 kW	12.44 kW
COP Tj = +2°C	4.41	3.15
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	12.44 kW	11.48 kW
COP Tj = +7°C	5.44	4.4
Cdh Tj = +7 °C	0.98	0.98

This information was generated by the HP KEYMARK database on 30 Jan 2023

Pdh Tj = 12°C	14.77 kW	13.82 kW
COP Tj = 12°C	6.83	6.12
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	22.6 kW	19.44 kW
COP Tj = Tbiv	2.6	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	18.38 kW	11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.6	1.25
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.9	0.9
WTOL	60 °C	60 °C
Poff	50 W	50 W
PTO	100 W	80 W
PSB	50 W	50 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	7.17 kW	11.97 kW
Annual energy consumption Qhe	12250 kWh	14935 kWh



## Model: WLW276 24 P

Configure model	
Model name	WLW276 24 P
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	35.78 kW	32.64 kW
El input	8.75 kW	14.01 kW
COP	4.09	2.33

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

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	78 dB(A)	78 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	169 %	124 %
Prated	25.5 kW	22.97 kW
SCOP	4.31	3.18
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	22.6 kW	18.82 kW
COP Tj = -7°C	2.6	1.89
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	13.25 kW	12.44 kW
COP Tj = +2°C	4.41	3.15
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	12.44 kW	11.48 kW
COP Tj = +7°C	5.44	4.4
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This information was generated by the HP KEYMARK database on 30 Jan 2023

Pdh Tj = 12°C	14.77 kW	13.82 kW
COP Tj = 12°C	6.83	6.12
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	22.6 kW	19.44 kW
COP Tj = Tbiv	2.6	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	18.38 kW	11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.6	1.25
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.9	0.9
WTOL	60 °C	60 °C
Poff	50 W	50 W
PTO	100 W	80 W
PSB	50 W	50 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	7.17 kW	11.97 kW
Annual energy consumption Qhe	12250 kWh	14935 kWh

## Model: WLW276 24 V

<b>Configure model</b>	
Model name	WLW276 24 V
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

<b>General Data</b>	
Power supply	3x400V 50Hz

### Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	35.78 kW	32.64 kW
El input	8.75 kW	14.01 kW
COP	4.09	2.33

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

### Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	78 dB(A)	78 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	169 %	124 %
Prated	25.5 kW	22.97 kW
SCOP	4.31	3.18
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	22.6 kW	18.82 kW
COP Tj = -7°C	2.6	1.89
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	13.25 kW	12.44 kW
COP Tj = +2°C	4.41	3.15
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	12.44 kW	11.48 kW
COP Tj = +7°C	5.44	4.4
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COP Tj = 12°C	6.83	6.12
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Pdh Tj = Tbiv	22.6 kW	19.44 kW
COP Tj = Tbiv	2.6	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	18.38 kW	11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.6	1.25
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.9	0.9
WTOL	60 °C	60 °C
Poff	50 W	50 W
PTO	100 W	80 W
PSB	50 W	50 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	7.17 kW	11.97 kW
Annual energy consumption Qhe	12250 kWh	14935 kWh