

This information was generated by the HP KEYMARK database on 21 Jun 2022

[Login](#)

Summary of	WPF 04, WPF 04 cool, WPC 04, WPC 04 cool	Reg. No.	011-1W0019
Certificate Holder			
Name	STIEBEL ELTRON GmbH & Co KG		
Address	Dr. Stiebel Straße 33	Zip	37603
City	Holzminden	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	WPF 04, WPF 04 cool, WPC 04, WPC 04 cool		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.05 kg		
Certification Date	23.08.2016		

## Model: WPF 04, all climates

Configure model	
Model name	WPF 04, all climates
Application	Heating (low temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2	
	Low temperature
Heat output	4.77 kW
El input	1.06 kW
COP	4.50

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

This information was generated by the HP KEYMARK database on 21 Jun 2022

### EN 12102-1

	Low temperature
Sound power level indoor	45 dB(A)

### EN 14825

	Low temperature
$\eta_s$	187 %
Prated	5.00 kW
SCOP	4.87
Tbiv	2 °C
TOL	0 °C
Pdh Tj = +2°C	4.80 kW
COP Tj = +2°C	4.50
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	4.80 kW
COP Tj = +7°C	4.80
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	4.90 kW
COP Tj = 12°C	5.29
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	4.80 kW

This information was generated by the HP KEYMARK database on 21 Jun 2022

COP Tj = Tbiv	4.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.50
WTOL	65 °C
Poff	0 W
PTO	54 W
PSB	9 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	1310 kWh

## Colder Climate

<b>EN 12102-1</b>	
	<b>Low temperature</b>
Sound power level indoor	45 dB(A)

<b>EN 14825</b>	
	<b>Low temperature</b>
$\eta_s$	195 %
Prated	6.00 kW

This information was generated by the HP KEYMARK database on 21 Jun 2022

SCOP	5.07
Tbiv	-15 °C
TOL	-22 °C
Pdh Tj = -7°C	4.90 kW
COP Tj = -7°C	5.03
Cdh Tj = -7 °C	0.90
Pdh Tj = +2°C	4.90 kW
COP Tj = +2°C	5.27
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	4.90 kW
COP Tj = +7°C	5.47
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	4.90 kW
COP Tj = 12°C	5.50
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	4.80 kW
COP Tj = Tbiv	4.92
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.92
WTOL	65 °C
Poff	0 W

This information was generated by the HP KEYMARK database on 21 Jun 2022

PTO	54 W
PSB	9 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.17 kW
Annual energy consumption Q <sub>he</sub>	2888 kWh
P <sub>dh</sub> T <sub>j</sub> = -15°C (if TOL<-20°C)	4.80
COP T <sub>j</sub> = -15°C (if TOL<-20°C)	4.92
C <sub>dh</sub> T <sub>j</sub> = -15 °C	0.90

## Average Climate

<b>EN 12102-1</b>	
	<b>Low temperature</b>
Sound power level indoor	45 dB(A)

<b>EN 14825</b>	
	<b>Low temperature</b>
$\eta_s$	189 %
Prated	5.00 kW
SCOP	4.92
T <sub>biv</sub>	-10 °C

This information was generated by the HP KEYMARK database on 21 Jun 2022

TOL	-10 °C
Pdh Tj = -7°C	4.80 kW
COP Tj = -7°C	4.55
Cdh Tj = -7 °C	0.90
Pdh Tj = +2°C	4.80 kW
COP Tj = +2°C	4.87
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	4.90 kW
COP Tj = +7°C	5.18
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	4.90 kW
COP Tj = 12°C	5.52
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	4.80 kW
COP Tj = Tbiv	4.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.50
WTOL	65 °C
Poff	0 W
PTO	54 W
PSB	9 W

This information was generated by the HP KEYMARK database on 21 Jun 2022

PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Q <sub>he</sub>	2002 kWh



## Model: WPF 04, average climates

Configure model	
Model name	WPF 04, average climates
Application	Heating (medium temp)
Units	Indoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.77 kW	4.25 kW
El input	1.06 kW	1.56 kW
COP	4.50	2.72

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

### Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	189 %	128 %
Prated	5.00 kW	4.00 kW
SCOP	4.92	3.40
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.80 kW	4.30 kW
COP Tj = -7°C	4.55	2.85
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	4.80 kW	4.50 kW
COP Tj = +2°C	4.87	3.35
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	4.90 kW	4.60 kW
COP Tj = +7°C	5.18	3.73
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	4.90 kW	4.70 kW

This information was generated by the HP KEYMARK database on 21 Jun 2022

COP Tj = 12°C	5.52	4.18
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	4.80 kW	4.30 kW
COP Tj = Tbiv	4.50	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.80 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.50	2.72
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	54 W	54 W
PSB	9 W	9 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	2002 kWh	2583 kWh

## Model: WPF 04 cool, all climates

Configure model	
Model name	WPF 04 cool, all climates
Application	Heating (low temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2	
	Low temperature
Heat output	4.77 kW
El input	1.06 kW
COP	4.50

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
Sound power level indoor	45 dB(A)

### EN 14825

	Low temperature
$\eta_s$	187 %
Prated	5.00 kW
SCOP	4.87
Tbiv	2 °C
TOL	0 °C
Pdh Tj = +2°C	4.80 kW
COP Tj = +2°C	4.50
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	4.80 kW
COP Tj = +7°C	4.80
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	4.90 kW
COP Tj = 12°C	5.29
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	4.80 kW

This information was generated by the HP KEYMARK database on 21 Jun 2022

COP $T_j = T_{biv}$	4.50
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	4.80 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	4.50
WTOL	65 °C
Poff	0 W
PTO	54 W
PSB	9 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption $Q_{he}$	1310 kWh

## Colder Climate

<b>EN 12102-1</b>	
	<b>Low temperature</b>
Sound power level indoor	45 dB(A)

<b>EN 14825</b>	
	<b>Low temperature</b>
$\eta_s$	195 %
Prated	6.00 kW

This information was generated by the HP KEYMARK database on 21 Jun 2022

SCOP	5.07
Tbiv	-15 °C
TOL	-22 °C
Pdh Tj = -7°C	4.90 kW
COP Tj = -7°C	5.03
Cdh Tj = -7 °C	0.90
Pdh Tj = +2°C	4.90 kW
COP Tj = +2°C	5.27
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	4.90 kW
COP Tj = +7°C	5.47
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	4.90 kW
COP Tj = 12°C	5.50
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	4.80 kW
COP Tj = Tbiv	4.92
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.92
WTOL	65 °C
Poff	0 W

This information was generated by the HP KEYMARK database on 21 Jun 2022

PTO	54 W
PSB	9 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.17 kW
Annual energy consumption Q <sub>he</sub>	2888 kWh
P <sub>dh</sub> T <sub>j</sub> = -15°C (if TOL<-20°C)	4.80
COP T <sub>j</sub> = -15°C (if TOL<-20°C)	4.92
C <sub>dh</sub> T <sub>j</sub> = -15 °C	0.90

## Average Climate

<b>EN 12102-1</b>	
	<b>Low temperature</b>
Sound power level indoor	45 dB(A)

<b>EN 14825</b>	
	<b>Low temperature</b>
$\eta_s$	189 %
Prated	5.00 kW
SCOP	4.92
T <sub>biv</sub>	-10 °C



This information was generated by the HP KEYMARK database on 21 Jun 2022

TOL	-10 °C
Pdh Tj = -7°C	4.80 kW
COP Tj = -7°C	4.55
Cdh Tj = -7 °C	0.90
Pdh Tj = +2°C	4.80 kW
COP Tj = +2°C	4.87
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	4.90 kW
COP Tj = +7°C	5.18
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	4.90 kW
COP Tj = 12°C	5.52
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	4.80 kW
COP Tj = Tbiv	4.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.50
WTOL	65 °C
Poff	0 W
PTO	54 W
PSB	9 W

This information was generated by the HP KEYMARK database on 21 Jun 2022

PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Q <sub>he</sub>	2002 kWh

## Model: WPF 04 cool, average climates

Configure model	
Model name	WPF 04 cool, average climates
Application	Heating (medium temp)
Units	Indoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.77 kW	4.25 kW
El input	1.06 kW	1.56 kW
COP	4.50	2.72

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 21 Jun 2022

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	189 %	128 %
Prated	5.00 kW	4.00 kW
SCOP	4.92	3.40
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.80 kW	4.30 kW
COP Tj = -7°C	4.55	2.85
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	4.80 kW	4.50 kW
COP Tj = +2°C	4.87	3.35
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	4.90 kW	4.60 kW
COP Tj = +7°C	5.18	3.73
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	4.90 kW	4.70 kW

This information was generated by the HP KEYMARK database on 21 Jun 2022

COP Tj = 12°C	5.52	4.18
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	4.80 kW	4.30 kW
COP Tj = Tbiv	4.50	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.80 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.50	2.72
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	54 W	54 W
PSB	9 W	9 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	2002 kWh	2583 kWh

## Model: WPC 04, all climates

Configure model	
Model name	WPC 04, all climates
Application	Heating (low temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2	
	Low temperature
Heat output	4.77 kW
El input	1.06 kW
COP	4.50

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
Sound power level indoor	45 dB(A)

### EN 14825

	Low temperature
$\eta_s$	187 %
Prated	5.00 kW
SCOP	4.87
Tbiv	2 °C
TOL	0 °C
Pdh Tj = +2°C	4.80 kW
COP Tj = +2°C	4.50
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	4.80 kW
COP Tj = +7°C	4.80
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	4.90 kW
COP Tj = 12°C	5.29
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	4.80 kW

This information was generated by the HP KEYMARK database on 21 Jun 2022

COP $T_j = T_{biv}$	4.50
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	4.80 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	4.50
WTOL	65 °C
Poff	0 W
PTO	54 W
PSB	9 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption $Q_{he}$	1310 kWh

## Colder Climate

<b>EN 12102-1</b>	
	<b>Low temperature</b>
Sound power level indoor	45 dB(A)

<b>EN 14825</b>	
	<b>Low temperature</b>
$\eta_s$	195 %
Prated	6.00 kW



This information was generated by the HP KEYMARK database on 21 Jun 2022

SCOP	5.07
Tbiv	-15 °C
TOL	-22 °C
Pdh Tj = -7°C	4.90 kW
COP Tj = -7°C	5.03
Cdh Tj = -7 °C	0.90
Pdh Tj = +2°C	4.90 kW
COP Tj = +2°C	5.27
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	4.90 kW
COP Tj = +7°C	5.47
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	4.90 kW
COP Tj = 12°C	5.50
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	4.80 kW
COP Tj = Tbiv	4.92
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.92
WTOL	65 °C
Poff	0 W

This information was generated by the HP KEYMARK database on 21 Jun 2022

PTO	54 W
PSB	9 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.17 kW
Annual energy consumption Q <sub>he</sub>	2888 kWh
P <sub>dh</sub> T <sub>j</sub> = -15°C (if TOL<-20°C)	4.80
COP T <sub>j</sub> = -15°C (if TOL<-20°C)	4.92
C <sub>dh</sub> T <sub>j</sub> = -15 °C	0.90

## Average Climate

<b>EN 12102-1</b>	
	<b>Low temperature</b>
Sound power level indoor	45 dB(A)

<b>EN 14825</b>	
	<b>Low temperature</b>
$\eta_s$	189 %
Prated	5.00 kW
SCOP	4.92
T <sub>biv</sub>	-10 °C

This information was generated by the HP KEYMARK database on 21 Jun 2022

TOL	-10 °C
Pdh Tj = -7°C	4.80 kW
COP Tj = -7°C	4.55
Cdh Tj = -7 °C	0.90
Pdh Tj = +2°C	4.80 kW
COP Tj = +2°C	4.87
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	4.90 kW
COP Tj = +7°C	5.18
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	4.90 kW
COP Tj = 12°C	5.52
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	4.80 kW
COP Tj = Tbiv	4.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.50
WTOL	65 °C
Poff	0 W
PTO	54 W
PSB	9 W

This information was generated by the HP KEYMARK database on 21 Jun 2022

PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Q <sub>he</sub>	2002 kWh

## Model: WPC 04, average climates

Configure model	
Model name	WPC 04, average climates
Application	Heating (medium temp)
Units	Indoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.77 kW	4.25 kW
El input	1.06 kW	1.56 kW
COP	4.50	2.72

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

### Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	189 %	128 %
Prated	5.00 kW	4.00 kW
SCOP	4.92	3.40
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.80 kW	4.30 kW
COP Tj = -7°C	4.55	2.85
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	4.80 kW	4.50 kW
COP Tj = +2°C	4.87	3.35
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	4.90 kW	4.60 kW
COP Tj = +7°C	5.18	3.73
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	4.90 kW	4.70 kW

This information was generated by the HP KEYMARK database on 21 Jun 2022

COP Tj = 12°C	5.52	4.18
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	4.80 kW	4.30 kW
COP Tj = Tbiv	4.50	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.80 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.50	2.72
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	54 W	54 W
PSB	9 W	9 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	2002 kWh	2583 kWh

## Model: WPC 04 cool, all climates

Configure model	
Model name	WPC 04 cool, all climates
Application	Heating (low temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2	
	Low temperature
Heat output	4.77 kW
El input	1.06 kW
COP	4.50

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
Sound power level indoor	45 dB(A)

### EN 14825

	Low temperature
$\eta_s$	187 %
Prated	5.00 kW
SCOP	4.87
Tbiv	2 °C
TOL	0 °C
Pdh Tj = +2°C	4.80 kW
COP Tj = +2°C	4.50
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	4.80 kW
COP Tj = +7°C	4.80
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	4.90 kW
COP Tj = 12°C	5.29
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	4.80 kW

This information was generated by the HP KEYMARK database on 21 Jun 2022

COP $T_j = T_{biv}$	4.50
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	4.80 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	4.50
WTOL	65 °C
Poff	0 W
PTO	54 W
PSB	9 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption $Q_{he}$	1310 kWh

## Colder Climate

<b>EN 12102-1</b>	
	<b>Low temperature</b>
Sound power level indoor	45 dB(A)

<b>EN 14825</b>	
	<b>Low temperature</b>
$\eta_s$	195 %
Prated	6.00 kW

This information was generated by the HP KEYMARK database on 21 Jun 2022

SCOP	5.07
Tbiv	-15 °C
TOL	-22 °C
Pdh Tj = -7°C	4.90 kW
COP Tj = -7°C	5.03
Cdh Tj = -7 °C	0.90
Pdh Tj = +2°C	4.90 kW
COP Tj = +2°C	5.27
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	4.90 kW
COP Tj = +7°C	5.47
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	4.90 kW
COP Tj = 12°C	5.50
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	4.80 kW
COP Tj = Tbiv	4.92
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.92
WTOL	65 °C
Poff	0 W

PTO	54 W
PSB	9 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.17 kW
Annual energy consumption Q <sub>he</sub>	2888 kWh
P <sub>dh</sub> T <sub>j</sub> = -15°C (if TOL<-20°C)	4.80
COP T <sub>j</sub> = -15°C (if TOL<-20°C)	4.92
C <sub>dh</sub> T <sub>j</sub> = -15 °C	0.90

## Average Climate

<b>EN 12102-1</b>	
	<b>Low temperature</b>
Sound power level indoor	45 dB(A)

<b>EN 14825</b>	
	<b>Low temperature</b>
$\eta_s$	189 %
Prated	5.00 kW
SCOP	4.92
T <sub>biv</sub>	-10 °C

This information was generated by the HP KEYMARK database on 21 Jun 2022

TOL	-10 °C
Pdh Tj = -7°C	4.80 kW
COP Tj = -7°C	4.55
Cdh Tj = -7 °C	0.90
Pdh Tj = +2°C	4.80 kW
COP Tj = +2°C	4.87
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	4.90 kW
COP Tj = +7°C	5.18
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	4.90 kW
COP Tj = 12°C	5.52
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	4.80 kW
COP Tj = Tbiv	4.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.50
WTOL	65 °C
Poff	0 W
PTO	54 W
PSB	9 W

This information was generated by the HP KEYMARK database on 21 Jun 2022

PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Q <sub>he</sub>	2002 kWh

## Model: WPC 04 cool, average climates

Configure model	
Model name	WPC 04 cool, average climates
Application	Heating (medium temp)
Units	Indoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.77 kW	4.25 kW
El input	1.06 kW	1.56 kW
COP	4.50	2.72

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 21 Jun 2022

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	189 %	128 %
Prated	5.00 kW	4.00 kW
SCOP	4.92	3.40
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.80 kW	4.30 kW
COP Tj = -7°C	4.55	2.85
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	4.80 kW	4.50 kW
COP Tj = +2°C	4.87	3.35
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	4.90 kW	4.60 kW
COP Tj = +7°C	5.18	3.73
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	4.90 kW	4.70 kW



This information was generated by the HP KEYMARK database on 21 Jun 2022

COP Tj = 12°C	5.52	4.18
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	4.80 kW	4.30 kW
COP Tj = Tbiv	4.50	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.80 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.50	2.72
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	54 W	54 W
PSB	9 W	9 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	2002 kWh	2583 kWh