Subtype BI-BLOC R290 HWP-40-80x	
Certificate Holder	Viessmann Climate Solutions GmbH & Co. KG
Address	Viessmannstr. 1
ZIP	35107
City	Allendorf/Eder
Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	BI-BLOC R290 HWP-40-80x
Registration number	011-1W1015
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.2 kg
Certification Date	30.04.2025
Testing basis	HP KEYMARK certification scheme rules rev. 14

This information was generated by the HP KEYMARK database on 25.09.2025

Model BI-BLOC R290 HWP-40-XWHT8-H	
Model name	BI-BLOC R290 HWP-40-XWHT8-H
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	
EN 14511-4 | Heating	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	4.00 kW	3.56 kW
El input	0.80 kW	1.20 kW
COP	5.00	2.97

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
Pdesignh	4.08 kW	3.77 kW
ηs	176 %	127 %
Prated	4.08 kW	3.77 kW
SCOP	4.48	3.25
Tbiv	-8 °C	-8 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.45 kW	3.22 kW
COP Tj = -7°C	3.12	2.15
Cdh Tj = -7 °C	0.993	0.995
Pdh Tj = +2°C	2.52 kW	2.04 kW

COP Tj = +2°C	4.33	3.11
Cdh Tj = +2 °C	0.987	0.988
Pdh Tj = +7°C	2.56 kW	2.57 kW
COP Tj = +7°C	5.62	4.13
Cdh Tj = +7 °C	0.984	0.988
Pdh Tj = 12°C	2.36 kW	2.20 kW
COP Tj = 12°C	7.16	6.03
Cdh Tj = +12 °C	0.978	0.980
Pdh Tj = Tbiv	3.65 kW	3.38 kW
COP Tj = Tbiv	3.00	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.42 kW	3.09 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.79	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	14 W	14 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.68 kW	0.67 kW
Annual energy consumption Qhe	1883 kWh	2395 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	5.62 kW	5.36 kW
ηs	148 %	122 %
Prated	5.62 kW	5.36 kW
SCOP	3.78	3.13
Tbiv	-9 °C	-9 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.40 kW	3.30 kW
COP Tj = -7°C	3.40	2.80
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	2.10 kW	2.00 kW
COP Tj = +2°C	5.00	4.00
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	2.60 kW	2.60 kW
COP Tj = +7°C	6.30	5.10

Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	2.30 kW	2.50 kW
COP Tj = 12°C	7.60	6.80
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	3.70 kW	3.50 kW
COP Tj = Tbiv	3.20	2.60
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.60 kW	2.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	14 W	14 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.62 kW	5.36 kW
Annual energy consumption Qhe	3662 kWh	4217 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	2.35 kW	1.90 kW
ηs	216 %	146 %
Prated	2.35 kW	1.90 kW
SCOP	5.47	3.73
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.30 kW	1.90 kW
COP Tj = +2°C	4.20	2.50
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	2.60 kW	2.30 kW
COP Tj = +7°C	5.40	3.50
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	2.50 kW	2.40 kW
COP Tj = 12°C	7.70	5.50
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	2.30 kW	1.90 kW
COP Tj = Tbiv	4.20	2.50

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.30 kW	1.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.20	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	14 W	14 W
PSB	16 W	16 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	573 kWh	680 kWh

Model BI-BLOC R290 HWP-60-XWHT8-H	
Model name	BI-BLOC R290 HWP-60-XWHT8-H
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	
EN 14511-4 | Heating	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	4.80 kW	4.39 kW
El input	0.98 kW	1.46 kW
COP	4.90	3.01

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
Pdesignh	5.46 kW	5.14 kW
ηs	180 %	141 %
Prated	5.46 kW	5.14 kW
SCOP	4.58	3.61
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.80 kW	4.60 kW
COP Tj = -7°C	3.00	2.30
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	2.90 kW	2.80 kW

COP Tj = +2°C	4.60	3.60
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	2.30 kW	2.50 kW
COP Tj = +7°C	5.50	4.70
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	2.30 kW	2.40 kW
COP Tj = 12°C	7.60	5.60
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	4.80 kW	4.60 kW
COP Tj = Tbiv	3.00	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.40 kW	4.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.70	2.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	14 W	14 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.05 kW	1.04 kW
Annual energy consumption Qhe	2461 kWh	2947 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	6.51 kW	6.71 kW
ηs	149 %	119 %
Prated	6.51 kW	6.71 kW
SCOP	3.80	3.04
Tbiv	-10 °C	-9 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.10 kW	4.00 kW
COP Tj = -7°C	3.30	2.70
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	2.50 kW	2.40 kW
COP Tj = +2°C	5.00	4.00
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	2.60 kW	2.60 kW
COP Tj = +7°C	6.30	5.20

Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	2.30 kW	2.50 kW
COP Tj = 12°C	7.60	6.90
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	4.50 kW	4.40 kW
COP Tj = Tbiv	2.90	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.30 kW	2.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	14 W	14 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.51 kW	6.71 kW
Annual energy consumption Qhe	4229 kWh	5435 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	2.77 kW	2.38 kW
ηs	220 %	153 %
Prated	2.77 kW	2.38 kW
SCOP	5.58	3.89
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.40 kW
COP Tj = +2°C	4.10	2.60
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	2.60 kW	2.30 kW
COP Tj = +7°C	5.30	3.50
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	2.40 kW	2.40 kW
COP Tj = 12°C	7.70	5.60
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	2.80 kW	2.40 kW
COP Tj = Tbiv	4.10	2.60

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.80 kW	2.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	14 W	14 W
PSB	16 W	16 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	663 kWh	817 kWh

Model BI-BLOC R290 HWP-80-XWHT8-H	
Model name	BI-BLOC R290 HWP-80-XWHT8-H
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	
EN 14511-4 | Heating	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	5.60 kW	5.36 kW
El input	1.19 kW	1.71 kW
COP	4.70	3.14

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
Pdesignh	6.47 kW	6.20 kW
ηs	175 %	137 %
Prated	6.47 kW	6.20 kW
SCOP	4.44	3.51
Tbiv	-6 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.30 kW	5.10 kW
COP Tj = -7°C	3.00	2.30
Cdh Tj = -7 °C	0.900	1.000
Pdh Tj = +2°C	3.50 kW	3.50 kW

COP Tj = +2°C	4.20	3.40
Cdh Tj = +2 °C	0.900	1.000
Pdh Tj = +7°C	2.60 kW	2.50 kW
COP Tj = +7°C	6.20	4.50
Cdh Tj = +7 °C	0.900	1.000
Pdh Tj = 12°C	2.20 kW	2.40 kW
COP Tj = 12°C	7.60	6.60
Cdh Tj = +12 °C	0.900	1.000
Pdh Tj = Tbiv	5.50 kW	5.20 kW
COP Tj = Tbiv	3.10	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.90 kW	4.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.70	2.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	1.000
WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	14 W	14 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.62 kW	1.70 kW
Annual energy consumption Qhe	3012 kWh	3648 kWh

EN 12102-1 | Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Colder Climate		
	Low temperature	Medium temperature
Pdesignh	7.68 kW	7.45 kW
ηs	143 %	121 %
Prated	7.68 kW	7.45 kW
SCOP	3.66	3.11
Tbiv	-9 °C	-9 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.70 kW	4.50 kW
COP Tj = -7°C	3.20	2.60
Cdh Tj = -7 °C	0.900	1.000
Pdh Tj = +2°C	2.90 kW	2.90 kW
COP Tj = +2°C	4.70	4.00
Cdh Tj = +2 °C	0.900	1.000
Pdh Tj = +7°C	3.10 kW	2.60 kW
COP Tj = +7°C	6.40	5.20

Cdh Tj = +7 °C	0.900	1.000
Pdh Tj = 12°C	2.90 kW	2.50 kW
COP Tj = 12°C	7.80	7.10
Cdh Tj = +12 °C	0.900	1.000
Pdh Tj = Tbiv	5.10 kW	4.90 kW
COP Tj = Tbiv	3.00	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.60 kW	3.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	1.000
WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	14 W	14 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	7.68 kW	7.45 kW
Annual energy consumption Qhe	5174 kWh	5903 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.83 kW	3.66 kW
ηs	238 %	166 %
Prated	3.83 kW	3.66 kW
SCOP	6.02	4.22
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.80 kW	3.70 kW
COP Tj = +2°C	3.80	2.70
Cdh Tj = +2 °C	0.900	1.000
Pdh Tj = +7°C	2.60 kW	2.30 kW
COP Tj = +7°C	5.60	3.60
Cdh Tj = +7 °C	0.900	1.000
Pdh Tj = 12°C	2.40 kW	2.40 kW
COP Tj = 12°C	7.90	5.80
Cdh Tj = +12 °C	0.900	1.000
Pdh Tj = Tbiv	3.80 kW	3.70 kW
COP Tj = Tbiv	3.80	2.70

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.80 kW	3.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.80	2.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	1.000
WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	14 W	14 W
PSB	16 W	16 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	849 kWh	1159 kWh

Model BI-BLOC R290 HWP-40-FST8-H	
Model name	BI-BLOC R290 HWP-40-FST8-H
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	110 %
COP	2.66
Heating up time	02:10 h:min
Standby power input	46.9 W
Reference hot water temperature	53.7 °C
Mixed water at 40°C	260 l
EN 16147 | Colder Climate	
Declared load profile	XL
Efficiency ηDHW	99 %
COP	2.35
Heating up time	02:42 h:min
Standby power input	73.8 W
Reference hot water temperature	53.7 °C
Mixed water at 40°C	260 l
EN 16147 | Warmer Climate	
Declared load profile	XL
Efficiency ηDHW	138 %
COP	3.25
Heating up time	02:16 h:min
Standby power input	61.2 W
Reference hot water temperature	55.6 °C
Mixed water at 40°C	260 l
EN 14511-4 | Heating	
Shutting off the heat transfer medium flow	passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	4.00 kW	3.56 kW
El input	0.80 kW	1.20 kW
COP	5.00	2.97

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
Pdesignh	4.08 kW	3.77 kW
ηs	176 %	127 %
Prated	4.08 kW	3.77 kW
SCOP	4.48	3.25
Tbiv	-8 °C	-8 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.45 kW	3.22 kW
COP Tj = -7°C	3.12	2.15
Cdh Tj = -7 °C	0.993	0.995
Pdh Tj = +2°C	2.52 kW	2.04 kW
COP Tj = +2°C	4.33	3.11
Cdh Tj = +2 °C	0.987	0.988
Pdh Tj = +7°C	2.56 kW	2.57 kW
COP Tj = +7°C	5.62	4.13
Cdh Tj = +7 °C	0.984	0.988
Pdh Tj = 12°C	2.36 kW	2.20 kW
COP Tj = 12°C	7.16	6.03
Cdh Tj = +12 °C	0.978	0.980
Pdh Tj = Tbiv	3.65 kW	3.38 kW
COP Tj = Tbiv	3.00	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.42 kW	3.09 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.79	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	14 W	14 W

PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.68 kW	0.67 kW
Annual energy consumption Qhe	1883 kWh	2395 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	5.62 kW	5.36 kW
ηs	148 %	122 %
Prated	5.62 kW	5.36 kW
SCOP	3.78	3.13
Tbiv	-9 °C	-9 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.40 kW	3.30 kW
COP Tj = -7°C	3.40	2.80
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	2.10 kW	2.00 kW
COP Tj = +2°C	5.00	4.00
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	2.60 kW	2.60 kW
COP Tj = +7°C	6.30	5.10
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	2.30 kW	2.50 kW
COP Tj = 12°C	7.60	6.80
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	3.70 kW	3.50 kW
COP Tj = Tbiv	3.20	2.60
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.60 kW	2.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	14 W	14 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity

Supplementary Heater: PSUP	5.62 kW	5.36 kW
Annual energy consumption Qhe	3662 kWh	4217 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	2.35 kW	1.90 kW
ηs	216 %	146 %
Prated	2.35 kW	1.90 kW
SCOP	5.47	3.73
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.30 kW	1.90 kW
COP Tj = +2°C	4.20	2.50
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	2.60 kW	2.30 kW
COP Tj = +7°C	5.40	3.50
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	2.50 kW	2.40 kW
COP Tj = 12°C	7.70	5.50
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	2.30 kW	1.90 kW
COP Tj = Tbiv	4.20	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.30 kW	1.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.20	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	14 W	14 W
PSB	16 W	16 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	573 kWh	680 kWh

Model BI-BLOC R290 HWP-60-FST8-H	
Model name	BI-BLOC R290 HWP-60-FST8-H
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	110 %
COP	2.67
Heating up time	02:10 h:min
Standby power input	45.4 W
Reference hot water temperature	53.5 °C
Mixed water at 40°C	260 l
EN 16147 | Colder Climate	
Declared load profile	XL
Efficiency ηDHW	99 %
COP	2.35
Heating up time	02:26 h:min
Standby power input	74.5 W
Reference hot water temperature	53.8 °C
Mixed water at 40°C	260 l
EN 16147 | Warmer Climate	
Declared load profile	XL
Efficiency ηDHW	144 %
COP	3.41
Heating up time	02:10 h:min
Standby power input	53.2 W
Reference hot water temperature	53.8 °C
Mixed water at 40°C	260 l
EN 14511-4 | Heating	
Shutting off the heat transfer medium flow	passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	4.80 kW	4.39 kW
El input	0.98 kW	1.46 kW
COP	4.90	3.01

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
Pdesignh	5.46 kW	5.14 kW
ηs	180 %	141 %
Prated	5.46 kW	5.14 kW
SCOP	4.58	3.61
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.80 kW	4.60 kW
COP Tj = -7°C	3.00	2.30
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	2.90 kW	2.80 kW
COP Tj = +2°C	4.60	3.60
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	2.30 kW	2.50 kW
COP Tj = +7°C	5.50	4.70
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	2.30 kW	2.40 kW
COP Tj = 12°C	7.60	5.60
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	4.80 kW	4.60 kW
COP Tj = Tbiv	3.00	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.40 kW	4.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.70	2.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	14 W	14 W

PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.05 kW	1.04 kW
Annual energy consumption Qhe	2461 kWh	2947 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	6.51 kW	6.71 kW
ηs	149 %	119 %
Prated	6.51 kW	6.71 kW
SCOP	3.80	3.04
Tbiv	-10 °C	-9 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.10 kW	4.00 kW
COP Tj = -7°C	3.30	2.70
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	2.50 kW	2.40 kW
COP Tj = +2°C	5.00	4.00
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	2.60 kW	2.60 kW
COP Tj = +7°C	6.30	5.20
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	2.30 kW	2.50 kW
COP Tj = 12°C	7.60	6.90
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	4.50 kW	4.40 kW
COP Tj = Tbiv	2.90	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.30 kW	2.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	14 W	14 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity

Supplementary Heater: PSUP	6.51 kW	6.71 kW
Annual energy consumption Qhe	4229 kWh	5435 kWh

EN 12102-1 | Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Warmer Climate		
	Low temperature	Medium temperature
Pdesignh	2.77 kW	2.38 kW
ηs	220 %	153 %
Prated	2.77 kW	2.38 kW
SCOP	5.58	3.89
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.40 kW
COP Tj = +2°C	4.10	2.60
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	2.60 kW	2.30 kW
COP Tj = +7°C	5.30	3.50
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	2.40 kW	2.40 kW
COP Tj = 12°C	7.70	5.60
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	2.80 kW	2.40 kW
COP Tj = Tbiv	4.10	2.60
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.80 kW	2.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	14 W	14 W
PSB	16 W	16 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	663 kWh	817 kWh

Model BI-BLOC R290 HWP-80-FST8-H	
Model name	BI-BLOC R290 HWP-80-FST8-H
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	110 %
COP	2.67
Heating up time	02:10 h:min
Standby power input	45.4 W
Reference hot water temperature	53.5 °C
Mixed water at 40°C	260 l
EN 16147 | Colder Climate	
Declared load profile	XL
Efficiency ηDHW	99 %
COP	2.35
Heating up time	02:26 h:min
Standby power input	74.5 W
Reference hot water temperature	53.8 °C
Mixed water at 40°C	260 l
EN 16147 | Warmer Climate	
Declared load profile	XL
Efficiency ηDHW	144 %
COP	3.41
Heating up time	02:10 h:min
Standby power input	53.2 W
Reference hot water temperature	53.8 °C
Mixed water at 40°C	260 l
EN 14511-4 | Heating	
Shutting off the heat transfer medium flow	passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	5.60 kW	5.36 kW
El input	1.19 kW	1.71 kW
COP	4.70	3.14

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
Pdesignh	6.47 kW	6.20 kW
ηs	175 %	137 %
Prated	6.47 kW	6.20 kW
SCOP	4.44	3.51
Tbiv	-6 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.30 kW	5.10 kW
COP Tj = -7°C	3.00	2.30
Cdh Tj = -7 °C	0.900	1.000
Pdh Tj = +2°C	3.50 kW	3.50 kW
COP Tj = +2°C	4.20	3.40
Cdh Tj = +2 °C	0.900	1.000
Pdh Tj = +7°C	2.60 kW	2.50 kW
COP Tj = +7°C	6.20	4.50
Cdh Tj = +7 °C	0.900	1.000
Pdh Tj = 12°C	2.20 kW	2.40 kW
COP Tj = 12°C	7.60	6.60
Cdh Tj = +12 °C	0.900	1.000
Pdh Tj = Tbiv	5.50 kW	5.20 kW
COP Tj = Tbiv	3.10	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.90 kW	4.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.70	2.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	1.000
WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	14 W	14 W

PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.62 kW	1.70 kW
Annual energy consumption Qhe	3012 kWh	3648 kWh

EN 12102-1 | Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Colder Climate		
	Low temperature	Medium temperature
Pdesignh	7.68 kW	7.45 kW
ηs	143 %	121 %
Prated	7.68 kW	7.45 kW
SCOP	3.66	3.11
Tbiv	-9 °C	-9 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.70 kW	4.50 kW
COP Tj = -7°C	3.20	2.60
Cdh Tj = -7 °C	0.900	1.000
Pdh Tj = +2°C	2.90 kW	2.90 kW
COP Tj = +2°C	4.70	4.00
Cdh Tj = +2 °C	0.900	1.000
Pdh Tj = +7°C	3.10 kW	2.60 kW
COP Tj = +7°C	6.40	5.20
Cdh Tj = +7 °C	0.900	1.000
Pdh Tj = 12°C	2.90 kW	2.50 kW
COP Tj = 12°C	7.80	7.10
Cdh Tj = +12 °C	0.900	1.000
Pdh Tj = Tbiv	5.10 kW	4.90 kW
COP Tj = Tbiv	3.00	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.60 kW	3.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	1.000
WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	14 W	14 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity

Supplementary Heater: PSUP	7.68 kW	7.45 kW
Annual energy consumption Qhe	5174 kWh	5903 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.83 kW	3.66 kW
ηs	238 %	166 %
Prated	3.83 kW	3.66 kW
SCOP	6.02	4.22
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.80 kW	3.70 kW
COP Tj = +2°C	3.80	2.70
Cdh Tj = +2 °C	0.900	1.000
Pdh Tj = +7°C	2.60 kW	2.30 kW
COP Tj = +7°C	5.60	3.60
Cdh Tj = +7 °C	0.900	1.000
Pdh Tj = 12°C	2.40 kW	2.40 kW
COP Tj = 12°C	7.90	5.80
Cdh Tj = +12 °C	0.900	1.000
Pdh Tj = Tbiv	3.80 kW	3.70 kW
COP Tj = Tbiv	3.80	2.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.80 kW	3.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.80	2.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	1.000
WTOL	70 °C	70 °C
Poff	0 W	0 W
PTO	14 W	14 W
PSB	16 W	16 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	849 kWh	1159 kWh