

This information was generated by the HP KEYMARK database on 1 Aug 2023

Summary of	DE DIETRICH Alezio S R32 6/8 MR & Alezio S Compact R32 6/8 MR	Reg. No.	21HK0022 / 007-DM0122
Certificate Holder			
Name	BDR Thermea FR (DE DIETRICH)		
Address	57 rue de la Gare	ZIP	67580
City	Mertzwiller	Country	France
Certification Body	Kiwa Nederland B.V.		
Subtype title	DE DIETRICH Alezio S R32 6/8 MR & Alezio S Compact R32 6/8 MR		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.2 kg		
Certification Date	03.12.2021		
Testing basis	European KEYMARK Scheme for Heat Pumps (v9)		

## Model: AWHPR 6 MR + MIV-S 4-8/EM R32

<b>Configure model</b>	
Model name	AWHPR 6 MR + MIV-S 4-8/EM R32
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C

<b>General Data</b>	
Power supply	1x230V 50Hz

### Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	1.97 kW
COP	5.00	2.90

<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

### Cooling

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<b>EN 14511-2</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
El input	2.10 kW	1.36 kW
Cooling capacity	6.50	7.00
EER	3.09	5.14

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 14825</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	6.50 kW	7.00 kW
SEER	4.01	6.49
P <sub>dc</sub> T <sub>j</sub> = 35°C	6.50 kW	7.00 kW
EER T <sub>j</sub> = 35°C	3.09	5.14
P <sub>dc</sub> T <sub>j</sub> = 30°C	4.90 kW	5.39 kW
EER T <sub>j</sub> = 30°C	3.99	6.65
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.10 kW	3.32 kW
EER T <sub>j</sub> = 25°C	4.55	4.93
P <sub>dc</sub> T <sub>j</sub> = 20°C	1.37 kW	1.78 kW
EER T <sub>j</sub> = 20°C	3.96	12.82
P <sub>off</sub>	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	973 kWh	647 kWh

## Average Climate

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	178 %	132 %
Prated	6.50 kW	6.00 kW
SCOP	4.52	3.38
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.50 kW
COP Tj = -7°C	3.16	2.22
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.50 kW	3.40 kW
COP Tj = +2°C	4.48	3.37
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.25 kW	2.10 kW
COP Tj = +7°C	5.61	4.07
Cdh Tj = +7 °C	0.960	0.970

This information was generated by the HP KEYMARK database on 1 Aug 2023

Pdh Tj = 12°C	2.50 kW	2.50 kW
COP Tj = 12°C	6.92	6.58
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	6.60 kW	5.50 kW
COP Tj = Tbiv	2.68	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.60 kW	5.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.70 kW
Annual energy consumption Qhe	2974 kWh	3667 kWh

# Model: AWHPR 6 MR + MIV-S 4-8/EM R32 + HPSL180 EVO

<b>Configure model</b>	
Model name	AWHPR 6 MR + MIV-S 4-8/EM R32 + HPSL180 EVO
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C

<b>General Data</b>	
Power supply	1x230V 50Hz

## Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	1.97 kW
COP	5.00	2.90

<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

## Cooling

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 14511-2</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
El input	2.10 kW	1.36 kW
Cooling capacity	6.50	7.00
EER	3.09	5.14



This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 14825</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	6.50 kW	7.00 kW
SEER	4.01	6.49
P <sub>dc</sub> T <sub>j</sub> = 35°C	6.50 kW	7.00 kW
EER T <sub>j</sub> = 35°C	3.09	5.14
P <sub>dc</sub> T <sub>j</sub> = 30°C	4.90 kW	5.39 kW
EER T <sub>j</sub> = 30°C	3.99	6.65
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.10 kW	3.32 kW
EER T <sub>j</sub> = 25°C	4.55	4.93
P <sub>dc</sub> T <sub>j</sub> = 20°C	1.37 kW	1.78 kW
EER T <sub>j</sub> = 20°C	3.96	12.82
P <sub>off</sub>	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	973 kWh	647 kWh

## Average Climate

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	178 %	132 %
Prated	6.50 kW	6.00 kW
SCOP	4.52	3.38
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.50 kW
COP Tj = -7°C	3.16	2.22
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.50 kW	3.40 kW
COP Tj = +2°C	4.48	3.37
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.25 kW	2.10 kW
COP Tj = +7°C	5.61	4.07
Cdh Tj = +7 °C	0.960	0.970

This information was generated by the HP KEYMARK database on 1 Aug 2023

Pdh Tj = 12°C	2.50 kW	2.50 kW
COP Tj = 12°C	6.92	6.58
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	6.60 kW	5.50 kW
COP Tj = Tbiv	2.68	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.60 kW	5.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.70 kW
Annual energy consumption Qhe	2974 kWh	3667 kWh

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 16147</b>	
Declared load profile	M
Efficiency $\eta_{DHW}$	111 %
COP	2.59
Heating up time	01:25 h:min
Standby power input	25.4 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	250 l

# Model: AWHPR 6 MR + MIV-S 4-8/EM R32 + HPSL180 EVO

<b>Configure model</b>	
Model name	AWHPR 6 MR + MIV-S 4-8/EM R32 + HPSL180 EVO
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C

<b>General Data</b>	
Power supply	1x230V 50Hz

## Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	1.97 kW
COP	5.00	2.90

<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

## Cooling

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 14511-2</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
El input	2.10 kW	1.36 kW
Cooling capacity	6.50	7.00
EER	3.09	5.14

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 14825</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	6.50 kW	7.00 kW
SEER	4.01	6.49
P <sub>dc</sub> T <sub>j</sub> = 35°C	6.50 kW	7.00 kW
EER T <sub>j</sub> = 35°C	3.09	5.14
P <sub>dc</sub> T <sub>j</sub> = 30°C	4.90 kW	5.39 kW
EER T <sub>j</sub> = 30°C	3.99	6.65
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.10 kW	3.32 kW
EER T <sub>j</sub> = 25°C	4.55	4.93
P <sub>dc</sub> T <sub>j</sub> = 20°C	1.37 kW	1.78 kW
EER T <sub>j</sub> = 20°C	3.96	12.82
P <sub>off</sub>	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	973 kWh	647 kWh

## Average Climate

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	178 %	132 %
Prated	6.50 kW	6.00 kW
SCOP	4.52	3.38
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.50 kW
COP Tj = -7°C	3.16	2.22
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.50 kW	3.40 kW
COP Tj = +2°C	4.48	3.37
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.25 kW	2.10 kW
COP Tj = +7°C	5.61	4.07
Cdh Tj = +7 °C	0.960	0.970



This information was generated by the HP KEYMARK database on 1 Aug 2023

Pdh Tj = 12°C	2.50 kW	2.50 kW
COP Tj = 12°C	6.92	6.58
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	6.60 kW	5.50 kW
COP Tj = Tbiv	2.68	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.60 kW	5.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.70 kW
Annual energy consumption Qhe	2974 kWh	3667 kWh

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	124 %
COP	2.98
Heating up time	01:25 h:min
Standby power input	28.1 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	250 l

## Model: AWHPR 6 MR + MIV-S 4-8/H R32

<b>Configure model</b>	
Model name	AWHPR 6 MR + MIV-S 4-8/H R32
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C

<b>General Data</b>	
Power supply	1x230V 50Hz

### Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	1.97 kW
COP	5.00	2.90

<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

### Cooling

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 14511-2</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
El input	2.10 kW	1.36 kW
Cooling capacity	6.50	7.00
EER	3.09	5.14

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 14825</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	6.50 kW	7.00 kW
SEER	4.01	6.49
P <sub>dc</sub> T <sub>j</sub> = 35°C	6.50 kW	7.00 kW
EER T <sub>j</sub> = 35°C	3.09	5.14
P <sub>dc</sub> T <sub>j</sub> = 30°C	4.90 kW	5.39 kW
EER T <sub>j</sub> = 30°C	3.99	6.65
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.10 kW	3.32 kW
EER T <sub>j</sub> = 25°C	4.55	4.93
P <sub>dc</sub> T <sub>j</sub> = 20°C	1.37 kW	1.78 kW
EER T <sub>j</sub> = 20°C	3.96	12.82
P <sub>off</sub>	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	973 kWh	647 kWh

## Average Climate

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	178 %	132 %
Prated	6.50 kW	6.00 kW
SCOP	4.52	3.38
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.50 kW
COP Tj = -7°C	3.16	2.22
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.50 kW	3.40 kW
COP Tj = +2°C	4.48	3.37
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.25 kW	2.10 kW
COP Tj = +7°C	5.61	4.07
Cdh Tj = +7 °C	0.960	0.970

This information was generated by the HP KEYMARK database on 1 Aug 2023

Pdh Tj = 12°C	2.50 kW	2.50 kW
COP Tj = 12°C	6.92	6.58
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	6.60 kW	5.50 kW
COP Tj = Tbiv	2.68	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.60 kW	5.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.70 kW
Annual energy consumption Qhe	2974 kWh	3667 kWh

## Model: AWHPR 8 MR + MIV-S 4-8/EM R32

<b>Configure model</b>	
Model name	AWHPR 8 MR + MIV-S 4-8/EM R32
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C

<b>General Data</b>	
Power supply	1x230V 50Hz

### Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	7.60 kW	8.00 kW
El input	1.59 kW	2.91 kW
COP	4.77	2.75

<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

### Cooling



This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 14511-2</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
El input	2.15 kW	1.45 kW
Cooling capacity	6.50	7.10
EER	3.02	4.88

<b>EN 14825</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	6.50 kW	7.10 kW
SEER	4.43	5.89
P <sub>dc</sub> T <sub>j</sub> = 35°C	6.50 kW	7.10 kW
EER T <sub>j</sub> = 35°C	3.02	4.88
P <sub>dc</sub> T <sub>j</sub> = 30°C	4.97 kW	5.65 kW
EER T <sub>j</sub> = 30°C	4.12	6.81
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.35 kW	3.18 kW
EER T <sub>j</sub> = 25°C	4.74	5.26
P <sub>dc</sub> T <sub>j</sub> = 20°C	1.55 kW	1.67 kW
EER T <sub>j</sub> = 20°C	5.50	7.40
P <sub>off</sub>	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	881 kWh	723 kWh

## Average Climate

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	177 %	131 %
Prated	7.00 kW	7.00 kW
SCOP	4.50	3.34
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.19 kW	6.19 kW
COP Tj = -7°C	2.97	2.09
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.12 kW	3.79 kW
COP Tj = +2°C	4.46	3.24
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.78 kW	2.49 kW
COP Tj = +7°C	5.70	4.57
Cdh Tj = +7 °C	0.970	0.970

This information was generated by the HP KEYMARK database on 1 Aug 2023

Pdh Tj = 12°C	2.67 kW	2.55 kW
COP Tj = 12°C	7.80	6.10
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	6.19 kW	6.19 kW
COP Tj = Tbiv	2.97	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.64 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.58	1.66
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.36 kW	2.10 kW
Annual energy consumption Qhe	3213 kWh	4334 kWh

# Model: AWHPR 8 MR + MIV-S 4-8/EM R32 + HPSL180 EVO

<b>Configure model</b>	
Model name	AWHPR 8 MR + MIV-S 4-8/EM R32 + HPSL180 EVO
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C

<b>General Data</b>	
Power supply	1x230V 50Hz

## Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	7.60 kW	8.00 kW
El input	1.59 kW	2.91 kW
COP	4.77	2.75

<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

## Cooling

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 14511-2</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
El input	2.15 kW	1.45 kW
Cooling capacity	6.50	7.10
EER	3.02	4.88

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 14825</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	6.50 kW	7.10 kW
SEER	4.43	5.89
P <sub>dc</sub> T <sub>j</sub> = 35°C	6.50 kW	7.10 kW
EER T <sub>j</sub> = 35°C	3.02	4.88
P <sub>dc</sub> T <sub>j</sub> = 30°C	4.97 kW	5.65 kW
EER T <sub>j</sub> = 30°C	4.12	6.81
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.35 kW	3.18 kW
EER T <sub>j</sub> = 25°C	4.74	5.26
P <sub>dc</sub> T <sub>j</sub> = 20°C	1.55 kW	1.67 kW
EER T <sub>j</sub> = 20°C	5.50	7.40
P <sub>off</sub>	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	881 kWh	723 kWh

## Average Climate

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	177 %	131 %
Prated	7.00 kW	7.00 kW
SCOP	4.50	3.34
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.19 kW	6.19 kW
COP Tj = -7°C	2.97	2.09
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.12 kW	3.79 kW
COP Tj = +2°C	4.46	3.24
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.78 kW	2.49 kW
COP Tj = +7°C	5.70	4.57
Cdh Tj = +7 °C	0.970	0.970



This information was generated by the HP KEYMARK database on 1 Aug 2023

Pdh Tj = 12°C	2.67 kW	2.55 kW
COP Tj = 12°C	7.80	6.10
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	6.19 kW	6.19 kW
COP Tj = Tbiv	2.97	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.64 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.58	1.66
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.36 kW	2.10 kW
Annual energy consumption Qhe	3213 kWh	4334 kWh

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 16147</b>	
Declared load profile	M
Efficiency $\eta_{DHW}$	111 %
COP	2.59
Heating up time	01:25 h:min
Standby power input	25.4 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	250 l

# Model: AWHPR 8 MR + MIV-S 4-8/EM R32 + HPSL180 EVO

<b>Configure model</b>	
Model name	AWHPR 8 MR + MIV-S 4-8/EM R32 + HPSL180 EVO
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C

<b>General Data</b>	
Power supply	1x230V 50Hz

## Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	7.60 kW	8.00 kW
El input	1.59 kW	2.91 kW
COP	4.77	2.75

<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

## Cooling

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 14511-2</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
El input	2.15 kW	1.45 kW
Cooling capacity	6.50	7.10
EER	3.02	4.88

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 14825</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	6.50 kW	7.10 kW
SEER	4.43	5.89
P <sub>dc</sub> T <sub>j</sub> = 35°C	6.50 kW	7.10 kW
EER T <sub>j</sub> = 35°C	3.02	4.88
P <sub>dc</sub> T <sub>j</sub> = 30°C	4.97 kW	5.65 kW
EER T <sub>j</sub> = 30°C	4.12	6.81
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.35 kW	3.18 kW
EER T <sub>j</sub> = 25°C	4.74	5.26
P <sub>dc</sub> T <sub>j</sub> = 20°C	1.55 kW	1.67 kW
EER T <sub>j</sub> = 20°C	5.50	7.40
P <sub>off</sub>	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	881 kWh	723 kWh

## Average Climate

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	177 %	131 %
Prated	7.00 kW	7.00 kW
SCOP	4.50	3.34
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.19 kW	6.19 kW
COP Tj = -7°C	2.97	2.09
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.12 kW	3.79 kW
COP Tj = +2°C	4.46	3.24
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.78 kW	2.49 kW
COP Tj = +7°C	5.70	4.57
Cdh Tj = +7 °C	0.970	0.970

This information was generated by the HP KEYMARK database on 1 Aug 2023

Pdh Tj = 12°C	2.67 kW	2.55 kW
COP Tj = 12°C	7.80	6.10
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	6.19 kW	6.19 kW
COP Tj = Tbiv	2.97	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.64 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.58	1.66
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.36 kW	2.10 kW
Annual energy consumption Qhe	3213 kWh	4334 kWh

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	124 %
COP	2.98
Heating up time	01:25 h:min
Standby power input	28.1 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	250 l



## Model: AWHPR 8 MR + MIV-S 4-8/H R32

<b>Configure model</b>	
Model name	AWHPR 8 MR + MIV-S 4-8/H R32
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C

<b>General Data</b>	
Power supply	1x230V 50Hz

### Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	7.60 kW	8.00 kW
El input	1.59 kW	2.91 kW
COP	4.77	2.75

<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

### Cooling

This information was generated by the HP KEYMARK database on 1 Aug 2023

<b>EN 14511-2</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
El input	2.15 kW	1.45 kW
Cooling capacity	6.50	7.10
EER	3.02	4.88

<b>EN 14825</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	6.50 kW	7.10 kW
SEER	4.43	5.89
P <sub>dc</sub> T <sub>j</sub> = 35°C	6.50 kW	7.10 kW
EER T <sub>j</sub> = 35°C	3.02	4.88
P <sub>dc</sub> T <sub>j</sub> = 30°C	4.97 kW	5.65 kW
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P <sub>dc</sub> T <sub>j</sub> = 25°C	3.35 kW	3.18 kW
EER T <sub>j</sub> = 25°C	4.74	5.26
P <sub>dc</sub> T <sub>j</sub> = 20°C	1.55 kW	1.67 kW
EER T <sub>j</sub> = 20°C	5.50	7.40
P <sub>off</sub>	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	881 kWh	723 kWh

## Average Climate

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<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	33 dB(A)	33 dB(A)
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<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	177 %	131 %
Prated	7.00 kW	7.00 kW
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Tbiv	-7 °C	-7 °C
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Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.12 kW	3.79 kW
COP Tj = +2°C	4.46	3.24
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.78 kW	2.49 kW
COP Tj = +7°C	5.70	4.57
Cdh Tj = +7 °C	0.970	0.970

This information was generated by the HP KEYMARK database on 1 Aug 2023

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Pdh Tj = Tbiv	6.19 kW	6.19 kW
COP Tj = Tbiv	2.97	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.64 kW	4.90 kW
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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.36 kW	2.10 kW
Annual energy consumption Qhe	3213 kWh	4334 kWh