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Summary of	DE DIETRICH Alezio 6/8	Reg. No.	21HK0024/00
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 6/8		
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 + HP SL180 EVO

## Configure model

Model name	AWHPR 6 MR + MIV-S 4-8/EM R32 + HP SL180 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

## General Data

Power supply	1x230V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	1.97 kW
COP	5.00	2.90

### EN 14511-4

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 18 Mar 2022

<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

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<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

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	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 18 Mar 2022

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 18 Mar 2022

<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 + HP SL180 EVO

Configure model	
Model name	AWHPR 6 MR + MIV-S 4-8/EM R32 + HP SL180 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

General Data	
Power supply	1x230V 50Hz

## Heating

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

EN 14511-4	
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 18 Mar 2022

<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

<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

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	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 18 Mar 2022

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

<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

Configure model	
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

General Data	
Power supply	1x230V 50Hz

### Heating

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

EN 14511-4	
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

<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



### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	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 18 Mar 2022

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

Configure model	
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

General Data	
Power supply	1x230V 50Hz

## Heating

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

EN 14511-4	
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 18 Mar 2022

<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

<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

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	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 18 Mar 2022

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 + HP SL180 EVO

Configure model	
Model name	AWHPR 8 MR + MIV-S 4-8/EM R32 + HP SL180 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

General Data	
Power supply	1x230V 50Hz

## Heating

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

EN 14511-4	
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 18 Mar 2022

<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

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	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 18 Mar 2022

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

<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 + HP SL180 EVO

Configure model	
Model name	AWHPR 8 MR + MIV-S 4-8/EM R32 + HP SL180 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

General Data	
Power supply	1x230V 50Hz

## Heating

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

EN 14511-4	
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 18 Mar 2022

<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



### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	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 18 Mar 2022

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 18 Mar 2022

<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

Configure model	
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

General Data	
Power supply	1x230V 50Hz

### Heating

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

EN 14511-4	
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 18 Mar 2022

<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

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

### EN 14825

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$\eta_s$	177 %	131 %
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COP Tj = +2°C	4.46	3.24
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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

Configure model	
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

General Data	
Power supply	1x230V 50Hz

## Heating

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	Low temperature	Medium temperature
Heat output	7.60 kW	8.00 kW
El input	1.59 kW	2.91 kW
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EN 14511-4	
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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