

## Subtype Oertli OENOVIPAC-C FIRST R32 6/8 &amp; OENOVIPAC-C SLIM R32 6/8

Certificate Holder	BDR Thermea FR (OERTLI)
Address	57 rue de la Gare
ZIP	67580
City	Mertzwiller
Country	FR
Certification Body	Kiwa Nederland B.V.
Subtype title	Oertli OENOVIPAC-C FIRST R32 6/8 & OENOVIPAC-C SLIM R32 6/8
Registration number	007-DM0128
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 + MHC/EM 4-8 R32

Model name	AWHPR 6 MR + MHC/EM 4-8 R32
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

## General data

Power supply	1x230V 50Hz
Off-peak product	No

## 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	6.40 kW	5.70 kW
El input	1.28 kW	1.97 kW
COP	5.00	2.90

### EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.10 kW	1.36 kW
Cooling capacity	6.50	7.00
EER	3.09	5.14

### EN 12102-1 | Average Climate

	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 | Average Climate

	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
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

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
$\eta_s$	207 %	141 %
Prated	6.50 kW	6.00 kW
SCOP	5.24	3.61
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.50 kW	6.00 kW
COP Tj = +2°C	3.40	2.27
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.30 kW	4.05 kW
COP Tj = +7°C	5.30	3.16
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	1.86 kW	1.90 kW
COP Tj = 12°C	6.07	4.70
Cdh Tj = +12 °C	0.95	0.96

Pdh Tj = Tbiv	6.50 kW	6.00 kW
COP Tj = Tbiv	3.40	2.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.50 kW	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.40	2.27
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1658 kWh	2222 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.50 kW	7.00 kW
SEER	4.01	6.49
Pdc Tj = 35°C	6.50 kW	7.00 kW
EER Tj = 35°C	3.09	5.14
Pdc Tj = 30°C	4.90 kW	5.39 kW
EER Tj = 30°C	3.99	6.65
Pdc Tj = 25°C	3.10 kW	3.32 kW
EER Tj = 25°C	4.55	4.93
Pdc Tj = 20°C	1.37 kW	1.78 kW
EER Tj = 20°C	3.96	12.82
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Qce	973 kWh	647 kWh

## Model AWHPR 6 MR + MHC/EM 4-8 R32 + HPSL180 EVO

Model name	AWHPR 6 MR + MHC/EM 4-8 R32 + HPSL180 EVO
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

### General data

Power supply	1x230V 50Hz
Off-peak product	No

### Outdoor Air/Water

#### EN 16147 | Average Climate

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

#### EN 16147 | Warmer Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	149 %
COP	3.50
Heating up time	01:28 h:min
Standby power input	36.5 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	277 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	6.40 kW	5.70 kW
El input	1.28 kW	1.97 kW
COP	5.00	2.90

### EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.10 kW	1.36 kW
Cooling capacity	6.50	7.00
EER	3.09	5.14

#### EN 12102-1 | Average Climate

	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 | Average Climate

	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
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

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
$\eta_s$	207 %	141 %
Prated	6.50 kW	6.00 kW
SCOP	5.24	3.61
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.50 kW	6.00 kW
COP Tj = +2°C	3.40	2.27
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.30 kW	4.05 kW
COP Tj = +7°C	5.30	3.16
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	1.86 kW	1.90 kW
COP Tj = 12°C	6.07	4.70
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	6.50 kW	6.00 kW
COP Tj = Tbiv	3.40	2.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.50 kW	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.40	2.27
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1658 kWh	2222 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.50 kW	7.00 kW
SEER	4.01	6.49
Pdc Tj = 35°C	6.50 kW	7.00 kW
EER Tj = 35°C	3.09	5.14
Pdc Tj = 30°C	4.90 kW	5.39 kW
EER Tj = 30°C	3.99	6.65
Pdc Tj = 25°C	3.10 kW	3.32 kW
EER Tj = 25°C	4.55	4.93
Pdc Tj = 20°C	1.37 kW	1.78 kW
EER Tj = 20°C	3.96	12.82
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W

Annual energy consumption  $Q_{ce}$ 

973 kWh

647 kWh

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## Model AWHPR 6 MR + MHC/EM 4-8 R32 + HPSL180 EVO

Model name	AWHPR 6 MR + MHC/EM 4-8 R32 + HPSL180 EVO
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

### General data

Power supply	1x230V 50Hz
Off-peak product	No

### Outdoor Air/Water

#### EN 16147 | Average Climate

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

#### EN 16147 | Warmer Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	149 %
COP	3.50
Heating up time	01:28 h:min
Standby power input	36.5 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	277 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	6.40 kW	5.70 kW
El input	1.28 kW	1.97 kW
COP	5.00	2.90

### EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.10 kW	1.36 kW
Cooling capacity	6.50	7.00
EER	3.09	5.14

#### EN 12102-1 | Average Climate

	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 | Average Climate

	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
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

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
$\eta_s$	207 %	141 %
Prated	6.50 kW	6.00 kW
SCOP	5.24	3.61
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.50 kW	6.00 kW
COP Tj = +2°C	3.40	2.27
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.30 kW	4.05 kW
COP Tj = +7°C	5.30	3.16
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	1.86 kW	1.90 kW
COP Tj = 12°C	6.07	4.70
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	6.50 kW	6.00 kW
COP Tj = Tbiv	3.40	2.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.50 kW	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.40	2.27
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1658 kWh	2222 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.50 kW	7.00 kW
SEER	4.01	6.49
Pdc Tj = 35°C	6.50 kW	7.00 kW
EER Tj = 35°C	3.09	5.14
Pdc Tj = 30°C	4.90 kW	5.39 kW
EER Tj = 30°C	3.99	6.65
Pdc Tj = 25°C	3.10 kW	3.32 kW
EER Tj = 25°C	4.55	4.93
Pdc Tj = 20°C	1.37 kW	1.78 kW
EER Tj = 20°C	3.96	12.82
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W

Annual energy consumption  $Q_{ce}$ 

973 kWh

647 kWh

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## Model AWHPR 6 MR + MHC/H 4-8 R32

Model name	AWHPR 6 MR + MHC/H 4-8 R32
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

## General data

Power supply	1x230V 50Hz
Off-peak product	No

## 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	6.40 kW	5.70 kW
El input	1.28 kW	1.97 kW
COP	5.00	2.90

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.10 kW	1.36 kW
Cooling capacity	6.50	7.00
EER	3.09	5.14

## EN 12102-1 | Average Climate

	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 | Average Climate

	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
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

### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	207 %	141 %
Prated	6.50 kW	6.00 kW
SCOP	5.24	3.61
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.50 kW	6.00 kW
COP Tj = +2°C	3.40	2.27
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.30 kW	4.05 kW
COP Tj = +7°C	5.30	3.16
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	1.86 kW	1.90 kW
COP Tj = 12°C	6.07	4.70
Cdh Tj = +12 °C	0.95	0.96

Pdh Tj = Tbiv	6.50 kW	6.00 kW
COP Tj = Tbiv	3.40	2.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.50 kW	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.40	2.27
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1658 kWh	2222 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.50 kW	7.00 kW
SEER	4.01	6.49
Pdc Tj = 35°C	6.50 kW	7.00 kW
EER Tj = 35°C	3.09	5.14
Pdc Tj = 30°C	4.90 kW	5.39 kW
EER Tj = 30°C	3.99	6.65
Pdc Tj = 25°C	3.10 kW	3.32 kW
EER Tj = 25°C	4.55	4.93
Pdc Tj = 20°C	1.37 kW	1.78 kW
EER Tj = 20°C	3.96	12.82
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Qce	973 kWh	647 kWh

## Model AWHPR 8 MR + MHC/EM 4-8 R32

Model name	AWHPR 8 MR + MHC/EM 4-8 R32
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

## General data

Power supply	1x230V 50Hz
Off-peak product	No

## 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	7.60 kW	8.00 kW
El input	1.59 kW	2.91 kW
COP	4.77	2.75

### EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.15 kW	1.45 kW
Cooling capacity	6.50	7.10
EER	3.02	4.88

### EN 12102-1 | Average Climate

	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 | Average Climate

	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
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

### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
$\eta_s$	214 %	149 %
Prated	7.00 kW	6.60 kW
SCOP	5.41	3.81
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.00 kW	6.60 kW
COP Tj = +2°C	3.25	2.12
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.70 kW	4.58 kW
COP Tj = +7°C	5.11	3.36
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	2.11 kW	2.00 kW
COP Tj = 12°C	6.71	5.00
Cdh Tj = +12 °C	0.95	0.96

Pdh Tj = Tbiv	7.00 kW	6.60 kW
COP Tj = Tbiv	3.25	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	6.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.25	2.12
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	10.6 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1728 kWh	2315 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.50 kW	7.10 kW
SEER	4.43	5.89
Pdc Tj = 35°C	6.50 kW	7.10 kW
EER Tj = 35°C	3.02	4.88
Pdc Tj = 30°C	4.97 kW	5.65 kW
EER Tj = 30°C	4.12	6.81
Pdc Tj = 25°C	3.35 kW	3.18 kW
EER Tj = 25°C	4.74	5.26
Pdc Tj = 20°C	1.55 kW	1.67 kW
EER Tj = 20°C	5.50	7.40
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Qce	881 kWh	723 kWh

## Model AWHPR 8 MR + MHC/EM 4-8 R32 + HPSL180 EVO

Model name	AWHPR 8 MR + MHC/EM 4-8 R32 + HPSL180 EVO
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

### General data

Power supply	1x230V 50Hz
Off-peak product	No

### Outdoor Air/Water

#### EN 16147 | Average Climate

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

#### EN 16147 | Warmer Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	143 %
COP	3.40
Heating up time	01:20 h:min
Standby power input	30.9 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	278 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	7.60 kW	8.00 kW
El input	1.59 kW	2.91 kW
COP	4.77	2.75

### EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.15 kW	1.45 kW
Cooling capacity	6.50	7.10
EER	3.02	4.88

#### EN 12102-1 | Average Climate

	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 | Average Climate

	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
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

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
$\eta_s$	214 %	149 %
Prated	7.00 kW	6.60 kW
SCOP	5.41	3.81
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.00 kW	6.60 kW
COP Tj = +2°C	3.25	2.12
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.70 kW	4.58 kW
COP Tj = +7°C	5.11	3.36
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	2.11 kW	2.00 kW
COP Tj = 12°C	6.71	5.00
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	7.00 kW	6.60 kW
COP Tj = Tbiv	3.25	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	6.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.25	2.12
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	10.6 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1728 kWh	2315 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.50 kW	7.10 kW
SEER	4.43	5.89
Pdc Tj = 35°C	6.50 kW	7.10 kW
EER Tj = 35°C	3.02	4.88
Pdc Tj = 30°C	4.97 kW	5.65 kW
EER Tj = 30°C	4.12	6.81
Pdc Tj = 25°C	3.35 kW	3.18 kW
EER Tj = 25°C	4.74	5.26
Pdc Tj = 20°C	1.55 kW	1.67 kW
EER Tj = 20°C	5.50	7.40
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W

Annual energy consumption  $Q_{ce}$ 

881 kWh

723 kWh

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## Model AWHPR 8 MR + MHC/EM 4-8 R32 + HPSL180 EVO

Model name	AWHPR 8 MR + MHC/EM 4-8 R32 + HPSL180 EVO
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

### General data

Power supply	1x230V 50Hz
Off-peak product	No

### Outdoor Air/Water

#### EN 16147 | Average Climate

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

#### EN 16147 | Warmer Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	143 %
COP	3.40
Heating up time	01:20 h:min
Standby power input	30.9 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	278 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	7.60 kW	8.00 kW
El input	1.59 kW	2.91 kW
COP	4.77	2.75

### EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.15 kW	1.45 kW
Cooling capacity	6.50	7.10
EER	3.02	4.88

#### EN 12102-1 | Average Climate

	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 | Average Climate

	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
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

#### EN 14825 | Warmer Climate



	Low temperature	Medium temperature
$\eta_s$	214 %	149 %
Prated	7.00 kW	6.60 kW
SCOP	5.41	3.81
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.00 kW	6.60 kW
COP Tj = +2°C	3.25	2.12
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.70 kW	4.58 kW
COP Tj = +7°C	5.11	3.36
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	2.11 kW	2.00 kW
COP Tj = 12°C	6.71	5.00
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	7.00 kW	6.60 kW
COP Tj = Tbiv	3.25	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	6.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.25	2.12
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	10.6 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1728 kWh	2315 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.50 kW	7.10 kW
SEER	4.43	5.89
Pdc Tj = 35°C	6.50 kW	7.10 kW
EER Tj = 35°C	3.02	4.88
Pdc Tj = 30°C	4.97 kW	5.65 kW
EER Tj = 30°C	4.12	6.81
Pdc Tj = 25°C	3.35 kW	3.18 kW
EER Tj = 25°C	4.74	5.26
Pdc Tj = 20°C	1.55 kW	1.67 kW
EER Tj = 20°C	5.50	7.40
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W

Annual energy consumption  $Q_{ce}$ 

881 kWh

723 kWh

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## Model AWHPR 8 MR + MHC/H 4-8 R32

Model name	AWHPR 8 MR + MHC/H 4-8 R32
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

## General data

Power supply	1x230V 50Hz
Off-peak product	No

## 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	7.60 kW	8.00 kW
El input	1.59 kW	2.91 kW
COP	4.77	2.75

### EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.15 kW	1.45 kW
Cooling capacity	6.50	7.10
EER	3.02	4.88

### EN 12102-1 | Average Climate

	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 | Average Climate

	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
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

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
$\eta_s$	214 %	149 %
Prated	7.00 kW	6.60 kW
SCOP	5.41	3.81
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.00 kW	6.60 kW
COP Tj = +2°C	3.25	2.12
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.70 kW	4.58 kW
COP Tj = +7°C	5.11	3.36
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	2.11 kW	2.00 kW
COP Tj = 12°C	6.71	5.00
Cdh Tj = +12 °C	0.95	0.96

Pdh Tj = Tbiv	7.00 kW	6.60 kW
COP Tj = Tbiv	3.25	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	6.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.25	2.12
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	10.6 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1728 kWh	2315 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.50 kW	7.10 kW
SEER	4.43	5.89
Pdc Tj = 35°C	6.50 kW	7.10 kW
EER Tj = 35°C	3.02	4.88
Pdc Tj = 30°C	4.97 kW	5.65 kW
EER Tj = 30°C	4.12	6.81
Pdc Tj = 25°C	3.35 kW	3.18 kW
EER Tj = 25°C	4.74	5.26
Pdc Tj = 20°C	1.55 kW	1.67 kW
EER Tj = 20°C	5.50	7.40
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Annual energy consumption Qce	881 kWh	723 kWh