Subtype DE DIETRICH STRATEO 6/8 MR/E R32

Certificate Holder	BDR Thermea FR (DE DIETRICH)
Address	57 rue de la Gare
ZIP	67580
City	Mertzwiller
Country	FR
Certification Body	Kiwa Nederland B.V.
Subtype title	DE DIETRICH STRATEO 6/8 MR/E R32
Registration number	007-DM0102
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.2 kg
Certification Date	18.11.2022
Testing basis	European KEYMARK Scheme for Heat Pumps (v9)

Model AWHPR 6 MR + MIC-1C V190 R32

Model name	AWHPR 6 MR + MIC-1C V190 R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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 ηDHW	123 %
COP	2.84
Heating up time	01:35 h:min
Standby power input	28.2 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	277 l

EN 16147 | Warmer Climate

Declared load profile	L
Efficiency ηDHW	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	2.30 kW	1.43 kW
Cooling capacity	6.50	7.00
EER	2.83	4.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	34 dB(A)	34 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	177 %	132 %
Prated	6.50 kW	6.00 kW
SCOP	4.50	3.37
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	0.99	0.99
Pdh Tj = +2°C	3.50 kW	3.40 kW
COP Tj = +2°C	4.48	3.37
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	2.25 kW	2.10 kW
COP Tj = +7°C	5.61	4.07
Cdh Tj = +7 °C	0.96	0.97
Pdh Tj = 12°C	2.50 kW	2.50 kW
COP Tj = 12°C	6.92	6.58
Cdh Tj = +12 °C	0.96	0.97
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	0.99	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	0.7 kW
Annual energy consumption Qhe	2986 kWh	3679 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	6.5 kW	7.0 kW
SEER	3.95	5.99
Pdc Tj = 35°C	6.50 kW	7.00 kW
EER Tj = 35°C	2.83	4.88
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	9.48
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W

Annual energy consumption Qce	987 kWh	701 kWh

Model AWHPR 6 MR + MIC-2C V190 R32

Model name	AWHPR 6 MR + MIC-2C V190 R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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 ηDHW	123 %
COP	2.84
Heating up time	01:35 h:min
Standby power input	28.2 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	277 l

EN 16147 | Warmer Climate

Declared load profile	L
Efficiency ηDHW	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	1.36 kW	2.05 kW
COP	4.70	2.80

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.38 kW	1.51 kW
Cooling capacity	6.50	7.00
EER	2.74	4.64

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	34 dB(A)	34 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	159 %	121 %
Prated	6.50 kW	6.00 kW
SCOP	4.04	3.10
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.50 kW
COP Tj = -7°C	3.04	2.15
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.50 kW	3.40 kW
COP Tj = +2°C	4.09	3.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.25 kW	2.10 kW
COP Tj = +7°C	4.73	3.55
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	2.50 kW	2.50 kW
COP Tj = 12°C	5.73	5.50
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	6.60 kW	5.50 kW
COP Tj = Tbiv	2.60	2.15
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	2.60	1.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
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: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.70 kW
Annual energy consumption Qhe	3321 kWh	4004 kWh

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	179 %	127 %
Prated	6.50 kW	6.00 kW
SCOP	4.54	3.25
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.50 kW	6.00 kW
COP Tj = +2°C	3.27	2.21
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	4.30 kW	4.05 kW
COP Tj = +7°C	4.85	2.99
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	1.86 kW	1.90 kW
COP Tj = 12°C	4.88	3.96
Cdh Tj = +12 °C	0.950	0.960
Pdh Tj = Tbiv	6.50 kW	6.00 kW
COP Tj = Tbiv	3.27	2.21
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	3.27	2.21
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
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: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1913 kWh	2466 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.50 kW	7.00 kW
SEER	3.55	5.17
Pdc Tj = 35°C	6.50 kW	7.00 kW
EER Tj = 35°C	2.74	4.64
Pdc Tj = 30°C	4.90 kW	5.39 kW
EER Tj = 30°C	3.76	6.09
Cdc Tj = 30 °C		
Pdc Tj = 25°C	3.10 kW	3.32 kW
EER Tj = 25°C	4.10	4.44
Cdc Tj = 25 °C		
Pdc Tj = 20°C	1.37 kW	1.78 kW
EER Tj = 20°C	3.25	6.77

Cdc Tj = 20 °C		
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Qce	1099 kWh	812 kWh

Model AWHPR 8 MR + MIC-1C V190 R32	
Model name	AWHPR 8 MR + MIC-1C V190 R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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 ηDHW	108 %
COP	2.50
Heating up time	01:25 h:min
Standby power input	31.9 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	278 l
EN 16147 | Warmer Climate	
Declared load profile	L
Efficiency ηDHW	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	7.6 kW	8.0 kW
El input	1.66 kW	2.91 kW
COP	4.57	2.75

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.33 kW	1.45 kW
Cooling capacity	6.50	7.10
EER	2.79	4.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	176 %	125 %
Prated	7.00 kW	7.00 kW
SCOP	4.48	3.21
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	1.95
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.12 kW	3.79 kW
COP Tj = +2°C	4.46	3.24
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	2.78 kW	2.49 kW
COP Tj = +7°C	5.70	4.10
Cdh Tj = +7 °C	0.97	0.97
Pdh Tj = 12°C	2.67 kW	2.55 kW
COP Tj = 12°C	7.80	6.10
Cdh Tj = +12 °C	0.96	0.96
Pdh Tj = Tbiv	6.19 kW	6.19 kW
COP Tj = Tbiv	2.97	1.95
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	0.99	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	0.36 kW	2.1 kW
Annual energy consumption Qhe	3225 kWh	4504 kWh

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	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	0.990	0.990
Pdh Tj = +7°C	4.70 kW	4.58 kW
COP Tj = +7°C	5.11	3.36
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	2.11 kW	2.00 kW
COP Tj = 12°C	6.71	5.00
Cdh Tj = +12 °C	0.950	0.960
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	0.990	0.990
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: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1728 kWh	2315 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.5 kW	7.1 kW
SEER	4.32	5.82
Pdc Tj = 35°C	6.50 kW	7.10 kW
EER Tj = 35°C	2.79	4.88
Pdc Tj = 30°C	4.97 kW	5.65 kW
EER Tj = 30°C	3.96	6.71
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	15 W	15 W
PTO	15 W	15 W

PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Qce	904 kWh	732 kWh

Model AWHPR 8 MR + MIC-2C V190 R32

Model name	AWHPR 8 MR + MIC-2C V190 R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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 ηDHW	108 %
COP	2.50
Heating up time	01:25 h:min
Standby power input	31.9 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	278 l

EN 16147 | Warmer Climate

Declared load profile	L
Efficiency ηDHW	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	1.74 kW	2.99 kW
COP	4.38	2.68

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.41 kW	1.53 kW
Cooling capacity	6.50	7.10
EER	2.70	4.64

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	161 %	116 %
Prated	7.00 kW	7.00 kW
SCOP	4.09	2.99
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.19 kW	6.19 kW
COP Tj = -7°C	2.87	1.90
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.12 kW	3.79 kW
COP Tj = +2°C	4.13	3.04
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.78 kW	2.49 kW
COP Tj = +7°C	4.94	3.65
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	2.67 kW	2.55 kW
COP Tj = 12°C	6.40	5.17
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	6.19 kW	6.19 kW
COP Tj = Tbiv	2.87	1.90
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	2.51	1.62
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
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: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.36 kW	2.10 kW
Annual energy consumption Qhe	3535 kWh	4843 kWh

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	186 %	134 %
Prated	7.00 kW	6.60 kW
SCOP	4.72	3.44
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.00 kW	6.60 kW
COP Tj = +2°C	3.14	2.07
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	4.70 kW	4.58 kW
COP Tj = +7°C	4.72	3.18
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	2.11 kW	2.00 kW
COP Tj = 12°C	5.42	4.21
Cdh Tj = +12 °C	0.950	0.960
Pdh Tj = Tbiv	7.00 kW	6.60 kW
COP Tj = Tbiv	3.14	2.07
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	3.14	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
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: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1980 kWh	2566 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.50 kW	7.10 kW
SEER	3.86	5.04
Pdc Tj = 35°C	6.50 kW	7.10 kW
EER Tj = 35°C	2.70	4.64
Pdc Tj = 30°C	4.97 kW	5.65 kW
EER Tj = 30°C	3.74	6.16
Cdc Tj = 30 °C		
Pdc Tj = 25°C	3.35 kW	3.18 kW
EER Tj = 25°C	4.29	4.68
Cdc Tj = 25 °C		
Pdc Tj = 20°C	1.55 kW	1.67 kW
EER Tj = 20°C	4.34	5.55

Cdc Tj = 20 °C		
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Qce	1010 kWh	845 kWh

Model AWHPR 6 MR + MIC-1C V190 R32	
Model name	AWHPR 6 MR + MIC-1C V190 R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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 ηDHW	135 %
COP	3.20
Heating up time	01:35 h:min
Standby power input	35.5 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	277 l

EN 16147 | Warmer Climate	
Declared load profile	L
Efficiency ηDHW	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	2.30 kW	1.43 kW
Cooling capacity	6.50	7.00
EER	2.83	4.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	34 dB(A)	34 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	177 %	132 %
Prated	6.50 kW	6.00 kW
SCOP	4.50	3.37
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	0.99	0.99
Pdh Tj = +2°C	3.50 kW	3.40 kW
COP Tj = +2°C	4.48	3.37
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	2.25 kW	2.10 kW
COP Tj = +7°C	5.61	4.07
Cdh Tj = +7 °C	0.96	0.97
Pdh Tj = 12°C	2.50 kW	2.50 kW
COP Tj = 12°C	6.92	6.58
Cdh Tj = +12 °C	0.96	0.97
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	0.99	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	0.7 kW
Annual energy consumption Qhe	2986 kWh	3679 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	6.5 kW	7.0 kW
SEER	3.95	5.99
Pdc Tj = 35°C	6.50 kW	7.00 kW
EER Tj = 35°C	2.83	4.88
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	9.48
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W

Annual energy consumption Qce	987 kWh	701 kWh

Model AWHPR 6 MR + MIC-2C V190 R32	
Model name	AWHPR 6 MR + MIC-2C V190 R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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 ηDHW	135 %
COP	3.20
Heating up time	01:35 h:min
Standby power input	35.5 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	277 l
EN 16147 | Warmer Climate	
Declared load profile	L
Efficiency ηDHW	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	1.36 kW	2.05 kW
COP	4.70	2.80

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.38 kW	1.51 kW
Cooling capacity	6.50	7.00
EER	2.74	4.64

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	34 dB(A)	34 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	159 %	121 %
Prated	6.50 kW	6.00 kW
SCOP	4.04	3.10
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.50 kW
COP Tj = -7°C	3.04	2.15
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.50 kW	3.40 kW
COP Tj = +2°C	4.09	3.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.25 kW	2.10 kW
COP Tj = +7°C	4.73	3.55
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	2.50 kW	2.50 kW
COP Tj = 12°C	5.73	5.50
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	6.60 kW	5.50 kW
COP Tj = Tbiv	2.60	2.15
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	2.60	1.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
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: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.70 kW
Annual energy consumption Qhe	3321 kWh	4004 kWh

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	179 %	127 %
Prated	6.50 kW	6.00 kW
SCOP	4.54	3.25
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.50 kW	6.00 kW
COP Tj = +2°C	3.27	2.21
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	4.30 kW	4.05 kW
COP Tj = +7°C	4.85	2.99
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	1.86 kW	1.90 kW
COP Tj = 12°C	4.88	3.96
Cdh Tj = +12 °C	0.950	0.960
Pdh Tj = Tbiv	6.50 kW	6.00 kW
COP Tj = Tbiv	3.27	2.21
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	3.27	2.21
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
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: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1913 kWh	2466 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.50 kW	7.00 kW
SEER	3.55	5.17
Pdc Tj = 35°C	6.50 kW	7.00 kW
EER Tj = 35°C	2.74	4.64
Pdc Tj = 30°C	4.90 kW	5.39 kW
EER Tj = 30°C	3.76	6.09
Cdc Tj = 30 °C		
Pdc Tj = 25°C	3.10 kW	3.32 kW
EER Tj = 25°C	4.10	4.44
Cdc Tj = 25 °C		
Pdc Tj = 20°C	1.37 kW	1.78 kW
EER Tj = 20°C	3.25	6.77

Cdc Tj = 20 °C		
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Qce	1099 kWh	812 kWh

Model AWHPR 8 MR + MIC-1C V190 R32	
Model name	AWHPR 8 MR + MIC-1C V190 R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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 ηDHW	120 %
COP	2.85
Heating up time	01:25 h:min
Standby power input	34.9 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	278 l
EN 16147 | Warmer Climate	
Declared load profile	L
Efficiency ηDHW	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	7.6 kW	8.0 kW
El input	1.66 kW	2.91 kW
COP	4.57	2.75

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.33 kW	1.45 kW
Cooling capacity	6.50	7.10
EER	2.79	4.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	176 %	125 %
Prated	7.00 kW	7.00 kW
SCOP	4.48	3.21
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	1.95
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.12 kW	3.79 kW
COP Tj = +2°C	4.46	3.24
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	2.78 kW	2.49 kW
COP Tj = +7°C	5.70	4.10
Cdh Tj = +7 °C	0.97	0.97
Pdh Tj = 12°C	2.67 kW	2.55 kW
COP Tj = 12°C	7.80	6.10
Cdh Tj = +12 °C	0.96	0.96
Pdh Tj = Tbiv	6.19 kW	6.19 kW
COP Tj = Tbiv	2.97	1.95
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	0.99	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	0.36 kW	2.1 kW
Annual energy consumption Qhe	3225 kWh	4504 kWh

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	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	0.990	0.990
Pdh Tj = +7°C	4.70 kW	4.58 kW
COP Tj = +7°C	5.11	3.36
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	2.11 kW	2.00 kW
COP Tj = 12°C	6.71	5.00
Cdh Tj = +12 °C	0.950	0.960
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	0.990	0.990
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: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1728 kWh	2315 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.5 kW	7.1 kW
SEER	4.32	5.82
Pdc Tj = 35°C	6.50 kW	7.10 kW
EER Tj = 35°C	2.79	4.88
Pdc Tj = 30°C	4.97 kW	5.65 kW
EER Tj = 30°C	3.96	6.71
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	15 W	15 W
PTO	15 W	15 W

PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Qce	904 kWh	732 kWh

Model AWHPR 8 MR + MIC-2C V190 R32	
Model name	AWHPR 8 MR + MIC-2C V190 R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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 ηDHW	120 %
COP	2.85
Heating up time	01:25 h:min
Standby power input	34.9 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	278 l

EN 16147 | Warmer Climate	
Declared load profile	L
Efficiency ηDHW	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	1.74 kW	2.99 kW
COP	4.38	2.68

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.41 kW	1.53 kW
Cooling capacity	6.50	7.10
EER	2.70	4.64

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	161 %	116 %
Prated	7.00 kW	7.00 kW
SCOP	4.09	2.99
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.19 kW	6.19 kW
COP Tj = -7°C	2.87	1.90
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.12 kW	3.79 kW
COP Tj = +2°C	4.13	3.04
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.78 kW	2.49 kW
COP Tj = +7°C	4.94	3.65
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	2.67 kW	2.55 kW
COP Tj = 12°C	6.40	5.17
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	6.19 kW	6.19 kW
COP Tj = Tbiv	2.87	1.90
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	2.51	1.62
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
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: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.36 kW	2.10 kW
Annual energy consumption Qhe	3535 kWh	4843 kWh

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	186 %	134 %
Prated	7.00 kW	6.60 kW
SCOP	4.72	3.44
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.00 kW	6.60 kW
COP Tj = +2°C	3.14	2.07
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	4.70 kW	4.58 kW
COP Tj = +7°C	4.72	3.18
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	2.11 kW	2.00 kW
COP Tj = 12°C	5.42	4.21
Cdh Tj = +12 °C	0.950	0.960
Pdh Tj = Tbiv	7.00 kW	6.60 kW
COP Tj = Tbiv	3.14	2.07
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	3.14	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
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: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1980 kWh	2566 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.50 kW	7.10 kW
SEER	3.86	5.04
Pdc Tj = 35°C	6.50 kW	7.10 kW
EER Tj = 35°C	2.70	4.64
Pdc Tj = 30°C	4.97 kW	5.65 kW
EER Tj = 30°C	3.74	6.16
Cdc Tj = 30 °C		
Pdc Tj = 25°C	3.35 kW	3.18 kW
EER Tj = 25°C	4.29	4.68
Cdc Tj = 25 °C		
Pdc Tj = 20°C	1.55 kW	1.67 kW
EER Tj = 20°C	4.34	5.55

Cdc Tj = 20 °C		
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Qce	1010 kWh	845 kWh