

Artikelnummer	Produkt
Z011463	Vitocal 222-S 3,0 kW AWT-AC 221.A04
Z011464	Vitocal 222-S 5,6 kW AWT-AC 221.A07
Z012808	Vitocaldens 222-F HAWB-M 222.A26
Z012809	Vitocaldens 222-F HAWB-M 222.A29
Z012810	Vitocaldens 222-F HAWB 222.A29
Z013217	Vitocal 333-G BWT 331.B06
Z013218	Vitocal 333-G BWT 331.B08
Z013219	Vitocal 333-G BWT 331.B10
Z013220	Vitocal 343-G BWT 341.B06
Z013221	Vitocal 343-G BWT 341.B08
Z013222	Vitocal 343-G BWT 341.B10
Z013223	Vitocal 222-S AWT-AC 221.A10
Z013224	Vitocal 222-S AWT-AC 221.A13
Z013225	Vitocal 242-S AWT-AC 241.a10
Z013226	Vitocal 242-S AWT-AC 241.A13
Z013695	Vitocaldens 222-F Typ HAWB-M 222.A23
Z013717	Vitocal 222-S AWT-AC 221.A05
Z013719	Vitocal 242-S AWT-AC 241.A05
Z014022	Vitocal 222-S Typ AWT-AC 221.A16
Z014023	Vitocal 242-S Typ AWT-AC 241.A16

BEREITSCHAFTSZUSTAND

Power consumption in modes other than active mode Standby mode (P_SB) [KW]

0,014

0,014

0,024

0,024

BETRIEBSGRENZWERTTEMP_LT

For air-to-water heat pumps: operation limit temperature, Low-temperature application, Average climate con

-15

-15

-15

-15

-20

-25

-25

-25

-25

-25

-25

-20

-20

-20

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-15

-20

-20

BETRIEBSGRENZWERTTEMP_LTK

For air-to-water heat pumps: operation limit temperature, Low-temperature application, Colder climate condi

-15

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-15

-15

-15

-20

-20

BETRIEBSGRENZWERTTEMP_LTW

For air-to-water heat pumps: operation limit temperature, Low-temperature application, Warmer climate con

-15

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-20

-25

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-25

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-25

-25

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-15

-15

-15

-15

-15

-15

-20

-20

BETRIEBSGRENZWERTTEMP_MT

For air-to-water heat pumps: operation limit temperature, medium-temperature application, Average climate

-15

-15

-15

-15

-20

-25

-25

-25

-25

-25

-25

-15

-15

-15

-15

-15

-15

-15

-20

-20

BETRIEBSGRENZWERTTEMP_MTK

For air-to-water heat pumps: operation limit temperature, medium-temperature application, Colder climate c

-15

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-25

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-15

-15

-15

-15

-15

-20

-20

BETRIEBSGRENZWERTTEMP_MTW

For air-to-water heat pumps: operation limit temperature, medium-temperature application, Warmer climate

-15

-15

-15

-15

-20

-25

-25

-25

-25

-25

-25

-15

-15

-15

-15

-15

-15

-15

-20

-20

BIVALENZTEMPERATUR_LT

bivalent temperature, Low-temperature application, Average climate conditions (T_biv) [°C]

-7

-7

-7

-7

-7

-7

-7

-7

-7

-7

-7

-7

-7

-7

-7

-7

-7

BIVALENZTEMPERATUR_LTK

bivalent temperature, Low-temperature application, Colder climate conditions (T_biv) [°C]

-7

-10

-10

-6

-7

-15

-15

-15

-15

-15

-15

-10

-10

-10

-10

-10

-10

-13

-13

BIVALENZTEMPERATUR_MT

bivalent temperature, medium-temperature application, Average climate conditions (T_biv) [°C]

-7

-7

2

-7

-7

-7

-7

-7

-7

-7

-7

-7

-7

-7

-7

-7

-7

-7

BIVALENZTEMPERATUR_MTK

bivalent temperature, medium-temperature application, Colder climate conditions (T_biv) [°C]

- 7
- 10
- 6
- 6
- 5
- 15
- 15
- 15
- 15
- 15
- 10
- 10
- 6
- 6

- 6
- 6
- 17
- 17

E_ART_ERNERGIE_ZUFUHR	E_BEREITS_SPEICHER	E EFFIZIENZKLASSE_H
Type of energy input	Standby losses [W24]	Seasonal central heating energy efficiency
elektrisch	1748	
elektrisch	1748	
chemisch (Gas)		
chemisch (Gas)		
chemisch (Gas)		
elektrisch	1748	
elektrisch	1748	
elektrisch	1748	
elektrisch	2093	
elektrisch	2093	
elektrisch	2093	
elektrisch	1748	
elektrisch	1748	
elektrisch	2093	
elektrisch	2093	
chemisch (Gas)	1748	
elektrisch	1748	A+
elektrisch	220	A+
elektrisch	1748	A++
elektrisch	2093	A++

E_EFFIZIENZKLASSE_LT Seasonal space heating energy efficiency	E_EFFIZIENZKLASSE_MT Seasonal space heating energy efficiency
A++	A+
A++	A+
A++	A+
A++	A+
A++	A++
A++	A++
A++	A++
A++	A++
A++	A++
A++	A++
A++	A++
A++	A++
A++	A++
A++	A++
A++	A++
A++	A++
A++	A+
A++	A+
A++	A+
A++	A++
A++	A++

E Effizienzklasse_W	E Jahr_Energieverbrauch
Water heating energy efficiency classes	Annual energy consumption (Q_HE) [kwh]
A	2309
A	4014
A	4134
A	6456
A	6700
A	3444
A	4451
A	5755
A	3444
A	4451
A	5755
A	6273
A	7699
A	6273
A	7699
A	2331
A	4014
A	4014
A	7699
A	7699

E_JAHR_ENERGIEVERBRAUCH_K

Annual energy consumption, medium-temperature application, Colder climate conditions (Q_HE) [kwh]

4466

8422

7486

11845

13345

4378

5651

7318

4378

5651

7318

8184

8715

8184

8715

7058

8422

8422

8715

8715

E_JAHR_ENERGIEVERBRAUCH_LT

Annual energy consumption, Low-temperature application, Average climate conditions (Q_HE) [kwh]

1717
3590
3630
4920
4820
2675
3391
4439
2675
3391
4439
4821
7572
4821
7572
1818
3590
3590
7572
7572

E_JAHR_ENERGIEVERBRAUCH_LT_K

Annual energy consumption, medium-temperature application, Warmer climate conditions (Q_HE) [kwh]

3821

6486

5839

10478

9558

3392

4293

5629

3392

4293

5629

7330

10755

7330

10755

6206

6486

6486

10755

10755

E_JAHR_ENERGIEVERBRAUCH_LT_W

Annual energy consumption, medium-temperature application, Warmer climate conditions (Q_HE) [kwh]

465

898

883

1095

1263

1950

1926

2515

1950

1926

2515

1241

1912

1241

1912

585

898

898

1912

1912

E_JAHR_ENERGIEVERBRAUCH_W

Annual energy consumption, medium-temperature application, Warmer climate conditions (Q_HE) [kwh]

- 585
- 991
- 987
- 1454
- 1629
- 1950
- 2516
- 3243
- 1950
- 2516
- 3243
- 1608
- 2109
- 1608
- 2109
- 585
- 991
- 991
- 2109
- 2109

E_JAHR_STROMVERBRAUCH	E_QREF
Annual electricity consumption (AEC) [kwh]	
968	11,655
1072	11,655
1366	11,655
1430	11,655
1410	11,655
1397	19,07
1384	19,07
1401	19,07
1555	19,07
1427	19,07
1298	19,07
1850	19,07
1894	19,07
1770	19,07
2203	19,07
968	11,655
1072	11,655
1072	11,655
1860	19,07
1860	19,07

E_SCHALLEISTUNG_AUSSEN Sound power level, outdoors (L _{WA}) [dB A]	E_SCHALLEISTUNG_INNEN sound power level indoors (L _{WA}) [dB A]
58	30
58	30
58	41
60	41
60	41
	38
	38
	38
	38
	38
	38
60	30
60	30
60	30
60	30
58	41
58	30
58	30
61	30
61	30

E_TAG_STROMVERBRAUCH	E_WARMHALTEVERLUSTE	
Daily electricity consumption (Q_elec) [kwh]	standing loss (S) [W]	
	4 487	73
	4 964	73
6,21		
6,5		
6,41		
6,35		73
6,29		73
6,37		73
7,07		87
6,49		87
5,9		87
	8 542	73
	8 742	73
	8 177	87
	10 146	87
	4 487	73
	4 964	73
	4 964	87
	8 587	73
	8 587	87

E_WIRKUNGSGRAD_WARMWASSER_D

Water heating energy efficiency, Average climate conditions (Eta_wh) [%]

- 105
- 95
- 80
- 75
- 77
- 120
- 123
- 121
- 109
- 120
- 131
- 90
- 90
- 94
- 92
- 105
- 95
- 95
- 90
- 90

E_ZAPFPROFIL	GEEIGNET_SCHWACHLAST
Declared load profile	able to work only during off-peak hours
L	no
L	no
L	no
L	no
L	no
XL	no
XL	no
XL	no
XL	no
XL	no
XL	no
XL	no
XL	no
XL	no
XL	no
L	no
L	no
L	no
XL	no
XL	no

GRENZWERTBETRIEBSTEMP_HW

Heating water operating limit temperature (WTOL) [°C]

LEISTUNGSSTEUERUNG

capacity control

55 ja
55 ja
70 ja
70 ja
70 ja
65 nein
65 nein
65 nein
65 nein
65 nein
65 nein
55 ja
55 ja
55 ja
55 ja
55 ja
55 nein
55 nein
55 nein
55 nein

LEISTUNGSZAHL_BETRIEBSTEMP_LT

Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and out

2,37

2,37

2,37

2,31

2,88

4,74

5

5,16

4,74

5

5,16

2,88

2,76

2,88

2,76

2,37

2,52

2,52

2,44

2,44

LEISTUNGSZAHL_BETRIEBSTEMP_MT

Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and out

- 1,48
- 1,55
- 1,55
- 1,51
- 1,94
- 3,02
- 3,1
- 3,25
- 3,02
- 3,1
- 3,25
- 1,94
- 1,91
- 1,94
- 1,91
- 1,48
- 1,72
- 1,72
- 1,89
- 1,89

LEISTUNGSZAHL_BIVALENZTEMP_LT

Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and out

2,52

2,53

2,53

3,33

2,91

4,6

4,8

5

4,6

4,8

5

2,91

2,82

2,91

2,82

3,31

2,73

2,73

2,65

2,65

LEISTUNGSZAHL_BIVALENZTEMP_MT

Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and out

- 1,65
- 1,8
- 1,8
- 2,47
- 3,39
- 2,84
- 2,9
- 3,04
- 2,84
- 2,9
- 3,04
- 2,16
- 2,12
- 2,16
- 2,12
- 1,65
- 1,93
- 1,93
- 2,06
- 2,06

LEISTUNGSZAHL_M7_LT

Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and out

2,52

2,53

2,53

2,57

2,91

4,74

5

5,16

4,74

5

5,16

2,91

2,82

2,91

2,82

2,52

2,73

2,73

2,65

2,62

LEISTUNGSZAHL_M7_MT

Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and out

- 1,65
- 1,8
- 1,8
- 1,72
- 2,16
- 3,02
- 3,1
- 3,25
- 3,02
- 3,1
- 3,25
- 2,16
- 2,12
- 2,16
- 2,12
- 1,65
- 1,93
- 1,93
- 2,06
- 2,06

LEISTUNGSZAHL_P12_LT

Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and out

6,03

6,24

6,24

8,21

8,27

5,69

6

6,22

5,69

6

6,22

7,58

7,3

7,58

7,3

7,07

8,09

8,09

7,57

7,57

LEISTUNGSZAHL_P12_MT

Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and out

4,33
4,65
4,52
6,17
6,41
4,67
4,9
5,07
4,67
5,7
5,07
6,01
5,91
6,01
5,91
4,94
5,53
5,53
6,03
6,03

LEISTUNGSZAHL_P2_LT

Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and out

3,83

3,74

3,74

3,86

4,23

5,04

5,3

5,49

5,04

5,3

5,49

4,22

4,06

4,22

4,06

3,83

3,96

3,96

3,94

3,94

LEISTUNGSZAHL_P2_MT

Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and out

2,51

2,46

2,46

3,04

3,39

3,62

3,7

3,9

3,62

3,8

3,9

3,38

3,38

3,38

3,38

2,51

2,77

2,77

3,31

3,31

LEISTUNGSZAHL_P7_LT

Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and out

5,15

5,24

5,27

5,66

5,73

5,34

5,6

5,83

5,34

5,6

5,83

5,68

5,41

5,68

5,41

5,15

5,52

5,52

5,36

5,36

LEISTUNGSZAHL_P7_MT

Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and out

4,33
3,4
3,43
4,21
4,35
4,09
4,2
4,42
4,09
4,4
4,42
4,33
4,25
4,33
4,25
3,27
3,72
3,72
4,45
4,45

LEISTUNG_BETRIEBSTEMP_LT

Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj= operatic

- 2,8
- 5,8
- 5,8
- 7,7
- 9,3
- 5,7
- 7,7
- 10,5
- 5,7
- 7,7
- 10,5
- 9,3
- 10,9
- 9,3
- 10,9
- 2,8
- 4,5
- 4,5
- 12,3
- 12,3

LEISTUNG_BETRIEBSTEMP_MT

Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj= operatic

2,3

3,8

3,8

8,4

5,4

7,2

9,6

5,4

7,2

9,6

8,4

9,8

8,4

9,8

2,3

3,3

3,3

9,8

9,8

LEISTUNG_BIVALENZTEMP_LT

Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj= bivalent

2,9

6

6

5,9

9,2

5,7

7,6

10,4

5,7

7,6

10,4

9,2

10,8

9,2

10,8

2,1

4,8

4,8

13,3

13,3

LEISTUNG_BIVALENZTEMP_MT

Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj= bivalent

2,5
4,5
4,5
5,8
6,1
5,4
7,1
9,6
5,4
7,1
9,6
9,3
10,8
9,3
10,8
2,5
4,1
4,1
11,2
11,2

LEISTUNG_M7_LT

Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj= -7°C, Low

2,9

6

8,6

9,2

5,7

7,7

10,5

5,7

7,7

10,5

9,2

10,8

9,2

10,8

2,9

4,8

4,8

13,3

13,3

6

LEISTUNG_M7_MT

Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj= -7°C, me

- 2,5
- 4,5
- 4,5
- 7,8
- 9,3
- 5,4
- 7,2
- 9,7
- 5,4
- 7,2
- 9,7
- 9,3
- 10,8
- 9,3
- 10,8
- 2,5
- 4,1
- 4,1
- 11,2
- 11,2

LEISTUNG_P12_LT

Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj= +12°C, L

1,8

3

3

6

5,9

5,9

7,8

10,7

5,9

7,8

10,7

5,9

5,9

5,9

5,9

1,8

3

3

7,8

7,8

LEISTUNG_P12_MT

Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj= +12°C, n

1,7

3

3

5,9

5,6

5,7

7,7

10,4

5,7

7,7

10,4

5,6

5,6

5,6

5,6

1,7

3

3

7,2

7,2

LEISTUNG_P2_LT

Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj= +2°C, Lo

1,9

3,7

3,7

5,2

6

5,8

7,7

10,5

5,8

7,7

10,5

6

6,2

6

6,2

1,9

2,9

2,9

8,7

8,7

LEISTUNG_P2_MT

Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj= +2°C, m

1,6

2,8

2,8

5,2

6,1

5,5

7,4

10

5,5

7,4

10

6,1

6,5

6,1

6,5

1,6

2,8

2,8

7,8

7,8

LEISTUNG_P7_LT

Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj= +7°C, Lo

1,5

2,7

2,7

4,7

4,6

5,8

7,8

10,6

5,8

7,8

10,6

4,6

4,7

4,6

4,7

1,5

2,4

2,4

6,6

6,6

LEISTUNG_P7_MT

Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj= +7°C, m

1,3

2,3

2,3

4,5

4,4

5,6

7,5

10,2

5,6

7,5

10,2

4,4

4,4

4,4

4,4

1,3

2,9

2,9

5,8

5,8

MINDERUNGSFAKTOR_LT

Degradation co-efficient Low-temperature application (C_dh)

0,934

0,963

0,963

0,975

0,966

0,989

0,991

0,993

0,989

0,991

0,993

0,966

0,972

0,966

0,972

0,934

0,954

0,954

0,977

0,977

MINDERUNGSFAKTOR_MT

Degradation co-efficient medium-temperature application (C_dh)

0,956

0,972

0,972

0,981

0,973

0,992

0,994

0,995

0,992

0,994

0,995

0,973

0,973

0,973

0,973

0,956

0,969

0,969

0,98

0,98

NENNLEISTUNG_WP_LT

Rated heat output, Low-temperature application, Average climate conditions (Prated) [KW]

3
7
7
10
10
6
9
12
6
9
12
10
12
10
12
10
12
3
5
5
15
15

NENNLEISTUNG_WP_MT

Rated heat output, medium-temperature application, Average climate conditions (Prated) [KW]

- 3
- 5
- 5
- 9
- 11
- 6
- 8
- 11
- 6
- 8
- 11
- 10
- 12
- 10
- 12
- 3
- 5
- 5
- 13
- 13

NENNLEISTUNG_WP_MTK

Rated heat output, medium-temperature application, Colder climate conditions (Prated) [KW]

- 4
- 8
- 8
- 14
- 17
- 7
- 9
- 12
- 7
- 9
- 17
- 11
- 11
- 11
- 11
- 7
- 7
- 7
- 11
- 11

NENNLEISTUNG_WP_MTW

Rated heat output, medium-temperature application, Warmer climate conditions (Prated) [KW]

- 2
- 3
- 3
- 5
- 6
- 5
- 7
- 10
- 5
- 7
- 10
- 6
- 7
- 6
- 7
- 2
- 3
- 3
- 8
- 8

NENNLUFTDURCHSATZ_AUSSEN

For air-to-water heat pumps: Rated air flow rate, outdoors [m3/h]

2090

3600

3600

4210

3456

3456

3456

3456

3456

2090

3600

3600

3456

3456

NICHTSOLARES_SPEICHERVOL	SPEICHERINHALT
	storage volume (V) [L]
170	170
170	170
130	130
130	130
130	130
170	170
170	170
170	170
62	220
62	220
62	220
170	170
170	170
62	220
62	220
170	170
170	170
62	220
170	170
62	220

TEMPREGLER_AUS

Power consumption in modes other than active mode Thermostat-off mode (P_TO) [KW]

0,017

0,017

0,017

0,018

0,024

0,016

0,024

0,016

0,024

0,017

0,014

0,014

0,024

0,024

THERMOSTAT_AUS

Power consumption in modes other than active mode Off mode (P_OFF) [KW]

0,013

0,013

0,013

0,013

0,013

0,013

0,016

0,024

0,016

0,024

0,024

WAERMENENNLEISTUNG_ZUSATZ

Supplementary heater Rated heat output (P_SUP) [KW]

8,8

8,8

1,4

2,5

2,9

0,8

1

1,4

0,8

1

1,4

8,8

8,8

8,8

8,8

0,53

1,36

1,36

2,85

2,85

WASSER_SONNENDURCHSATZ_LT

For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger, Low-tempe

1,03

1,37

1,75

1,03

1,37

1,75

WASSER_SONNENDURCHSATZ_MT

For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger, medium-te

1,03

1,37

1,75

1,03

1,37

1,75

WIRKUNGSGRAD_ETA_S_LT

Seasonal space heating energy efficiency, Low-temperature application, Average climate conditions (Eta_s) [%]

- 155
- 154
- 154
- 159
- 175
- 193
- 203
- 212
- 193
- 203
- 212
- 175
- 158
- 175
- 158
- 152
- 164
- 164
- 161
- 161

WIRKUNGSGRAD_ETA_S_LT_K

Seasonal space heating energy efficiency, Low-temperature application, Colder climate conditions (Eta_s) [%]

- 118
- 120
- 133
- 136
- 150
- 198
- 209
- 218
- 198
- 209
- 218
- 144
- 140
- 144
- 140
- 120
- 127
- 127
- 135
- 135

WIRKUNGSGRAD_ETA_S_LT_W

Seasonal space heating energy efficiency, Low-temperature application, Warmer climate conditions (Eta_s) [%]

- 212
- 217
- 218
- 249
- 251
- 193
- 204
- 213
- 193
- 204
- 213
- 256
- 243
- 256
- 243
- 212
- 238
- 238
- 240
- 240

WIRKUNGSGRAD_ETA_S_MT

Seasonal space heating energy efficiency, medium-temperature application, Average climate conditions (Eta_s

- 100
- 102
- 102
- 118
- 136
- 138
- 143
- 150
- 138
- 143
- 150
- 135
- 132
- 135
- 132
- 100
- 113
- 113
- 132
- 132

WIRKUNGSGRAD_ETA_S_MT_K

Seasonal space heating energy efficiency, medium-temperature application, Colder climate conditions (Eta_s)

90

90

90

111

125

141

147

154

141

147

154

125

125

125

125

90

98

98

122

122

WIRKUNGSGRAD_ETA_S_MT_W

Seasonal space heating energy efficiency, medium-temperature application, Warmer climate conditions (Eta_s

- 142
- 150
- 151
- 189
- 196
- 137
- 143
- 150
- 137
- 143
- 150
- 198
- 194
- 198
- 194
- 142
- 164
- 164
- 195
- 195