

CATALOGUE CARD ELIS G KARTA KATALOGOWA ELIS G

GENERAL INFORMATION | INFORMACJE OGÓLE



EN

- ELIS G air curtain generating an air barrier, which protects interior from external environment (its temperature, solids and smog). The devices are designed for indoor use where maximum air dustiness does not exceed $0,3 \text{ g/m}^3$.
- Galvanized steel casing
- 3-speed, energy saving fan in standard.
- Mounting elements in standard

PL

- Kurtyna powietrzna ELIS G wytwarza barierę powietrzną, która chroni wnętrze pomieszczenia przed środowiskiem zewnętrznym (jego temperaturą, ciałami stałymi i smogiem). Urządzenia są przeznaczone do użytku w pomieszczeniach, w których maksymalne zapylenie powietrza nie przekracza $0,3 \text{ g/m}^3$.
- Obudowa wykonana ze stali ocynkowanej
- W standardzie z energooszczędnym wentylatorem z silnikiem 3 biegowym.
- Elementy mocujące w standardzie

CONTROL SYSTEM I STEROWANIE



T-box + DRV ELIS + RX

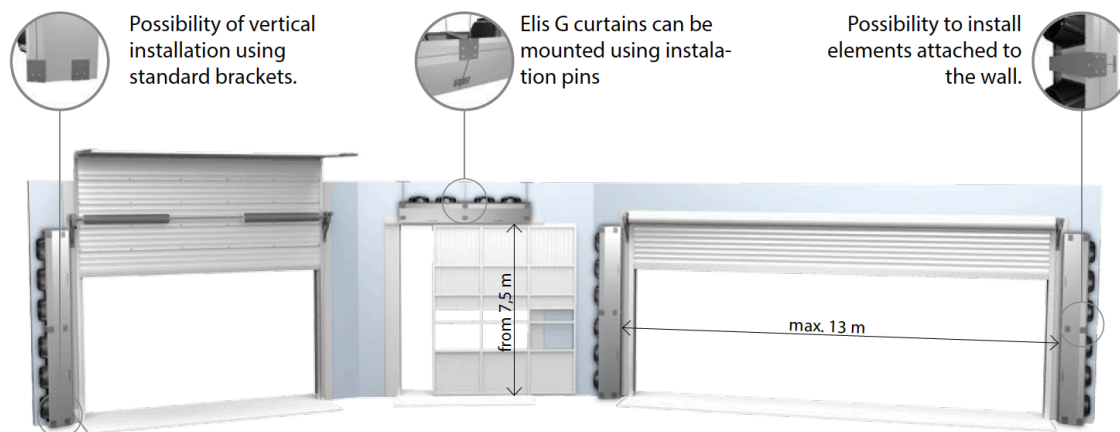
- 3-speed fan regulation
3-stopniowa regulacja wentylatora
- working modes: heating/ventilation
tryby pracy: grzanie/wentylacja
- BMS
- Delay time
Czas opóźnienia
- Bieg jałowy
Idle speed
- integration with FLOWAIR SYSTEM
integracja urządzeń do SYSTEMU FLOWAIR



TS + RX

- 3-speed, manual fan regulation
3-stopniowa manualna regulacja wentylatora
- working modes: heating/ventilation
tryby pracy: grzanie/wentylacja

INSTALATION I MOŻLIWOŚĆ MONTAŻU



TECHNICAL DATA I DANE TECHNICZNE

| Step Bieg | G-N-50 | | | G-W/N/E-150/150 2R | | | G-W/N/E-200/200 2R | | |
|--|-----------------------------|----------------|----------------|--------------------|-------------------|-----------------------------|--------------------|----------------|-------------------|
| | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| Fan power supply [V/Hz] Zasilanie wentylatorów [V/Hz] | 230/50 | | | | | | | | |
| Fan current consumption [A] Maks. pobór prądu wentylatorów [A] | 0,6 | 1,2 | 1,4 | 1,2 | 2,4 | 2,8 | 1,8 | 3,6 | 4,2 |
| Fan power consumption [kW] Maks. pobór mocy wentylatorów [kW] | 0,13 | 0,25 | 0,34 | 0,24 | 0,48 | 0,69 | 0,37 | 0,72 | 1,0 |
| Acoustic pressure level [dB(A)]* Poziom ciśnienia akustycznego* [dB(A)] | 44 | 55 | 64 | 45 | 56 | 66 | 46 | 58 | 68 |
| Acoustic power level** [dB(A)] Poziom mocy akustycznej** [dB(A)] | 59 | 70 | 79 | 60 | 71 | 81 | 61 | 73 | 83 |
| Fan IP IP wentylatora | 54 | | | | | | | | |
| | G-E-150 | | | | | G-E-200 | | | |
| Heating elements power supply [V/Hz] Zasilanie elementów grzejnych [V/Hz] | 3x400/50 | | | | | 3x400/50 | | | |
| Heating capacity [kW] Moc grzewcza*** [kW] | 9,0 | 10,5 | 12,0 | 16,5 | 18,5 | 20,0 | | | |
| Current consumption [A] Pobór prądu*** [A] | 13 | 15 | 17 | 23 | 26 | 29 | | | |
| Temperature rise [°C] Przyrost temperatury* [°C] | 12 | 9 | 7 | 12 | 9 | 7 | | | |
| | G-W-150 / G-W-150 2R | | | | | G-W-200 / G-W-200 2R | | | |
| Max. water temperature [°C] Maks. temp. wody grzewczej [°C] | 130 | | | | | 130 | | | |
| Max. water pressure [MPa] Maks. ciśnienie robocze [MPa] | 1,6 | | | | | 1,6 | | | |
| Connection ["] Przyłącze ["] | $\frac{3}{4}$ | | | | | $\frac{3}{4}$ | | | |
| | G-N-50 | G-W-150 | G-N-150 | G-E-150 | G-W-150 2R | G-W-200 | G-N-200 | G-E-200 | G-W-200 2R |
| Max. Air Volume [m ³ /h] Maks. Wydajność [m ³ /h] | 2500 | 6200 | 6500 | 6200 | 5700 | 8100 | 8600 | 8200 | 7600 |
| Range**** [m] Zasięg**** [m] | 7,5 | 7,0 | 7,5 | 7,0 | 7,0 | 7,0 | 7,5 | 7,0 | 7,0 |
| Weight [kg] Masa urządzenia [kg] | 19,3 | 47,4 | 43 | 49,8 | 51,8 | 62 | 58 | 67 | 66,4 |
| Weight of unit filled with water [kg] Masa urządzenia napełnionego wodą [kg] | - | 49,7 | - | - | 56,4 | 64,3 | - | - | 71,0 |

* Acoustic pressure level has been measured 5m from the unit in a 1500m³ space with a medium sound absorption coefficient

* Poziom ciśnienia akustycznego podano dla pomieszczenia o średniej zdolności pochłaniania dźwięku, objętości 1500m³, w odległości 5m od urządzenia

** Acoustic power level according to ISO 27327-2

** Poziom mocy akustycznej zgodnie z ISO 27327-2

*** G1-E-150/200 temperature increase at inlet air 10°C

*** G1-E-150/200 w temp. powietrza na wlocie do urządzenia 10°C.

**** according to ISO 27327-1

**** zgodnie z ISO 27327-1

HEATING CAPACITY I TABELE MOCY GRZEWCZYCH

G-W-150

| Tp1 | PT | Qw | Δpw | Tp2 | PT | Qw | Δpw | Tp2 | PT | Qw | Δpw | Tp2 | PT | Qw | Δpw | Tp2 |
|--|--------------------------|------|-----|------|--------------------------|------|-----|------|--------------------------|------|-----|------|--------------------------|-----|-----|------|
| °C | kW | l/h | kPa | °C | kW | l/h | kPa | °C | kW | l/h | kPa | °C | kW | l/h | kPa | °C |
| V = 4000 m³/h (1 bieg) | | | | | | | | | | | | | | | | |
| | Tw1/Tw2 = 90/70°C | | | | Tw1/Tw2 = 80/60°C | | | | Tw1/Tw2 = 70/50°C | | | | Tw1/Tw2 = 60/40°C | | | |
| 0 | 27,0 | 1190 | 5 | 19,0 | 23,2 | 1020 | 5 | 16,0 | 19,5 | 850 | 4 | 13,5 | 15,7 | 680 | 4 | 11,0 |
| 5 | 25,0 | 1100 | 6 | 22,5 | 21,2 | 930 | 5 | 20,0 | 17,5 | 770 | 3 | 17,5 | 13,7 | 600 | 3 | 14,5 |
| 10 | 22,9 | 1010 | 5 | 26,5 | 19,2 | 850 | 4 | 24,0 | 15,6 | 680 | 4 | 21,0 | 11,8 | 520 | 2 | 18,5 |
| 15 | 21,0 | 920 | 4 | 30,5 | 17,3 | 760 | 5 | 27,5 | 13,6 | 600 | 3 | 22,5 | 10,0 | 430 | 4 | 22,5 |
| 20 | 19,0 | 840 | 4 | 34,0 | 15,4 | 680 | 4 | 31,5 | 11,8 | 520 | 2 | 29,0 | 8,1 | 350 | 3 | 26,0 |
| V = 5100 m³/h (2 bieg) | | | | | | | | | | | | | | | | |
| | Tw1/Tw2 = 90/70°C | | | | Tw1/Tw2 = 80/60°C | | | | Tw1/Tw2 = 70/50°C | | | | Tw1/Tw2 = 60/40°C | | | |
| 0 | 31,2 | 1370 | 7 | 17,0 | 26,8 | 1180 | 5 | 14,5 | 22,4 | 980 | 5 | 12,0 | 18,0 | 790 | 3 | 10,0 |
| 5 | 28,8 | 1270 | 6 | 21,0 | 24,5 | 1070 | 6 | 18,5 | 20,1 | 880 | 4 | 16,0 | 15,8 | 690 | 4 | 14,0 |
| 10 | 26,4 | 1170 | 5 | 25,0 | 22,2 | 970 | 5 | 22,5 | 17,9 | 780 | 3 | 20,0 | 13,6 | 590 | 3 | 17,5 |
| 15 | 24,1 | 1060 | 6 | 29,0 | 19,9 | 880 | 4 | 26,5 | 15,7 | 690 | 4 | 24,0 | 11,4 | 500 | 2 | 21,5 |
| 20 | 21,9 | 960 | 5 | 33,0 | 17,7 | 780 | 3 | 30,5 | 13,5 | 590 | 3 | 28,0 | 9,3 | 410 | 3 | 25,5 |
| V = 6200 m³/h (3 bieg) | | | | | | | | | | | | | | | | |
| | Tw1/Tw2 = 90/70°C | | | | Tw1/Tw2 = 80/60°C | | | | Tw1/Tw2 = 70/50°C | | | | Tw1/Tw2 = 60/40°C | | | |
| 0 | 34,8 | 1530 | 9 | 15,5 | 29,9 | 1310 | 7 | 13,5 | 25,0 | 1090 | 6 | 11,0 | 20,1 | 880 | 4 | 9,0 |
| 5 | 32,1 | 1420 | 8 | 19,5 | 27,3 | 1200 | 6 | 17,5 | 22,4 | 980 | 5 | 15,5 | 17,6 | 770 | 3 | 13,0 |
| 10 | 29,5 | 1300 | 6 | 23,5 | 24,8 | 1090 | 6 | 21,5 | 20,0 | 870 | 4 | 19,5 | 15,1 | 660 | 4 | 17,0 |
| 15 | 27,0 | 1190 | 5 | 28,0 | 22,2 | 980 | 5 | 25,5 | 17,5 | 770 | 3 | 23,5 | 12,7 | 550 | 3 | 21,0 |
| 20 | 24,5 | 1080 | 6 | 32,0 | 19,8 | 870 | 4 | 29,5 | 15,1 | 660 | 4 | 27,5 | 10,4 | 450 | 4 | 25,0 |

G-W-200

| Tp1 | PT | Qw | Δpw | Tp2 | PT | Qw | Δpw | Tp2 | PT | Qw | Δpw | Tp2 | PT | Qw | Δpw | Tp2 |
|--|--------------------------|------|-----|------|--------------------------|------|-----|------|--------------------------|------|-----|------|--------------------------|-----|-----|------|
| °C | kW | l/h | kPa | °C | kW | l/h | kPa | °C | kW | l/h | kPa | °C | kW | l/h | kPa | °C |
| V = 5100 m³/h (1 bieg/40%) | | | | | | | | | | | | | | | | |
| | Tw1/Tw2 = 90/70°C | | | | Tw1/Tw2 = 80/60°C | | | | Tw1/Tw2 = 70/50°C | | | | Tw1/Tw2 = 60/40°C | | | |
| 0 | 29,3 | 1290 | 6 | 17,5 | 25,3 | 1110 | 6 | 15,5 | 21,1 | 920 | 5 | 13,0 | 17,0 | 740 | 5 | 10,5 |
| 5 | 27,1 | 1190 | 5 | 21,5 | 23,0 | 1010 | 5 | 19,0 | 19,0 | 830 | 4 | 16,5 | 14,9 | 650 | 4 | 14,0 |
| 10 | 24,9 | 1100 | 6 | 25,5 | 20,9 | 920 | 4 | 23,0 | 16,9 | 740 | 5 | 20,5 | 12,8 | 560 | 3 | 18,0 |
| 15 | 22,7 | 1000 | 5 | 29,5 | 18,8 | 820 | 4 | 27,0 | 14,8 | 650 | 4 | 24,5 | 10,8 | 470 | 4 | 22,0 |
| 20 | 20,6 | 910 | 4 | 33,5 | 16,7 | 730 | 5 | 31,0 | 12,8 | 560 | 3 | 28,5 | 8,8 | 380 | 3 | 25,5 |
| V = 6200 m³/h (2 bieg) | | | | | | | | | | | | | | | | |
| | Tw1/Tw2 = 90/70°C | | | | Tw1/Tw2 = 80/60°C | | | | Tw1/Tw2 = 70/50°C | | | | Tw1/Tw2 = 60/40°C | | | |
| 0 | 33,2 | 1460 | 8 | 16,0 | 28,5 | 1250 | 6 | 14,0 | 23,9 | 1040 | 6 | 11,5 | 19,2 | 840 | 4 | 9,4 |
| 5 | 30,6 | 1350 | 7 | 20,0 | 26,0 | 1140 | 5 | 18,0 | 21,4 | 940 | 5 | 15,5 | 16,8 | 730 | 5 | 13,5 |
| 10 | 28,2 | 1240 | 6 | 24,5 | 23,6 | 1040 | 6 | 22,0 | 19,0 | 830 | 4 | 19,5 | 14,5 | 630 | 4 | 17,5 |
| 15 | 25,7 | 1130 | 5 | 28,0 | 21,2 | 930 | 5 | 26,0 | 16,7 | 730 | 5 | 23,5 | 12,1 | 530 | 3 | 21,5 |
| 20 | 23,3 | 1030 | 5 | 32,0 | 18,9 | 830 | 4 | 30,0 | 14,4 | 630 | 4 | 27,5 | 9,9 | 430 | 4 | 25,0 |
| V = 8100 m³/h (3 bieg) | | | | | | | | | | | | | | | | |
| | Tw1/Tw2 = 90/70°C | | | | Tw1/Tw2 = 80/60°C | | | | Tw1/Tw2 = 70/50°C | | | | Tw1/Tw2 = 60/40°C | | | |
| 0 | 38,9 | 1720 | 9 | 14,5 | 33,5 | 1470 | 8 | 12,0 | 28,0 | 1220 | 6 | 10,0 | 22,4 | 980 | 5 | 8,0 |
| 5 | 36,0 | 1580 | 7 | 18,5 | 30,5 | 1340 | 7 | 16,5 | 25,1 | 1100 | 6 | 14,5 | 19,6 | 860 | 4 | 12,5 |
| 10 | 33,1 | 1460 | 8 | 22,5 | 27,7 | 1220 | 6 | 20,5 | 22,3 | 980 | 5 | 18,5 | 16,9 | 740 | 5 | 16,5 |
| 15 | 30,2 | 1330 | 7 | 26,5 | 24,9 | 1090 | 6 | 24,5 | 19,6 | 860 | 4 | 22,5 | 14,2 | 620 | 3 | 20,5 |
| 20 | 27,4 | 1210 | 6 | 31,0 | 22,1 | 970 | 5 | 28,5 | 16,9 | 740 | 5 | 26,5 | 11,6 | 500 | 2 | 24,5 |

V – przepływ powietrza / air flow

PT – moc grzewcza / heating capacity

Tp1 – temperatura powietrza na wlocie do urządzenia / inlet air temperature

Tp2 – temperatura powietrza na wylocie z urządzenia / outlet air temperature

Tw1 – temperatura wody na zasilaniu wymiennika / inlet water temperature

Tw2 – temperatura wody na powrocie z wymiennika / outlet water temperature

Qw – strumień przepływu wody grzewczej / heating water stream

Δpw – spadek ciśnienia wody w wymienniku / water pressure

HEATING CAPACITY I TABELE MOCY GRZEWCZYCH

G-W-150 2R

| Tp1 | PT | Qw | Δpw | Tp2 | PT | Qw | Δpw | Tp2 | PT | Qw | Δpw | Tp2 | PT | Qw | Δpw | Tp2 |
|--|--------------------------|------|-----|-----|--------------------------|------|-----|-----|--------------------------|------|-----|-----|--------------------------|------|-----|-----|
| °C | kW | l/h | kPa | °C | kW | l/h | kPa | °C | kW | l/h | kPa | °C | kW | l/h | kPa | °C |
| V = 3500 m³/h (1 bieg) | | | | | | | | | | | | | | | | |
| | Tw1/Tw2 = 90/70°C | | | | Tw1/Tw2 = 80/60°C | | | | Tw1/Tw2 = 70/50°C | | | | Tw1/Tw2 = 60/40°C | | | |
| 0 | 48,2 | 2120 | 3 | 38 | 41,4 | 1820 | 3 | 33 | 34,6 | 1520 | 4 | 28 | 27,8 | 1210 | 2 | 22 |
| 5 | 44,4 | 1960 | 3 | 41 | 37,8 | 1660 | 2 | 36 | 31,0 | 1360 | 3 | 30 | 24,3 | 1060 | 2 | 25 |
| 10 | 40,8 | 1800 | 2 | 44 | 34,2 | 1500 | 3 | 38 | 27,6 | 1210 | 2 | 33 | 20,9 | 910 | 2 | 27 |
| 15 | 37,2 | 1640 | 2 | 46 | 30,7 | 1350 | 3 | 41 | 24,2 | 1060 | 3 | 35 | 17,6 | 770 | 3 | 30 |
| 20 | 33,8 | 1490 | 3 | 49 | 27,3 | 1200 | 2 | 43 | 20,8 | 910 | 2 | 38 | 14,3 | 620 | 2 | 32 |
| V = 4600 m³/h (2 bieg) | | | | | | | | | | | | | | | | |
| | Tw1/Tw2 = 90/70°C | | | | Tw1/Tw2 = 80/60°C | | | | Tw1/Tw2 = 70/50°C | | | | Tw1/Tw2 = 60/40°C | | | |
| 0 | 57,3 | 2520 | 5 | 35 | 49,2 | 2160 | 4 | 30 | 41,0 | 1800 | 3 | 25 | 32,9 | 1430 | 3 | 20 |
| 5 | 52,9 | 2330 | 4 | 38 | 44,9 | 1970 | 3 | 33 | 36,8 | 1610 | 2 | 28 | 28,7 | 1250 | 2 | 23 |
| 10 | 48,5 | 2140 | 3 | 40 | 40,6 | 1780 | 2 | 36 | 32,6 | 1430 | 3 | 31 | 24,7 | 1080 | 3 | 26 |
| 15 | 44,3 | 1950 | 3 | 43 | 36,5 | 1600 | 2 | 38 | 28,6 | 1250 | 2 | 33 | 20,7 | 900 | 3 | 28 |
| 20 | 40,2 | 1770 | 2 | 46 | 32,4 | 1420 | 3 | 41 | 24,6 | 1080 | 3 | 36 | 16,8 | 730 | 3 | 31 |
| V = 5700 m³/h (3 bieg) | | | | | | | | | | | | | | | | |
| | Tw1/Tw2 = 90/70°C | | | | Tw1/Tw2 = 80/60°C | | | | Tw1/Tw2 = 70/50°C | | | | Tw1/Tw2 = 60/40°C | | | |
| 0 | 65,2 | 2870 | 4 | 32 | 56,0 | 2460 | 4 | 27 | 46,6 | 2040 | 3 | 23 | 37,3 | 1620 | 2 | 18 |
| 5 | 60,2 | 2650 | 4 | 35 | 51,1 | 2240 | 4 | 30 | 41,8 | 1830 | 3 | 26 | 32,6 | 1420 | 3 | 21 |
| 10 | 55,3 | 2440 | 4 | 38 | 46,2 | 2030 | 3 | 33 | 37,1 | 1620 | 2 | 29 | 27,9 | 1220 | 2 | 24 |
| 15 | 50,5 | 2220 | 4 | 41 | 41,5 | 1820 | 3 | 36 | 32,5 | 1420 | 3 | 32 | 23,4 | 1020 | 3 | 27 |
| 20 | 45,7 | 2020 | 3 | 44 | 36,8 | 1620 | 2 | 39 | 28,0 | 1220 | 2 | 35 | 19,0 | 830 | 2 | 30 |

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| Tp1 | PT | Qw | Δpw | Tp2 | PT | Qw | Δpw | Tp2 | PT | Qw | Δpw | Tp2 | PT | Qw | Δpw | Tp2 |
|--|--------------------------|------|-----|-----|--------------------------|------|-----|-----|--------------------------|------|-----|-----|--------------------------|------|-----|-----|
| °C | kW | l/h | kPa | °C | kW | l/h | kPa | °C | kW | l/h | kPa | °C | kW | l/h | kPa | °C |
| V = 4600 m³/h (1 bieg/40%) | | | | | | | | | | | | | | | | |
| | Tw1/Tw2 = 90/70°C | | | | Tw1/Tw2 = 80/60°C | | | | Tw1/Tw2 = 70/50°C | | | | Tw1/Tw2 = 60/40°C | | | |
| 0 | 53,3 | 2350 | 4 | 36 | 45,8 | 2010 | 3 | 31 | 38,2 | 1670 | 2 | 26 | 30,6 | 1330 | 3 | 21 |
| 5 | 49,2 | 2170 | 3 | 39 | 41,7 | 1830 | 3 | 34 | 34,3 | 1500 | 4 | 29 | 26,8 | 1170 | 2 | 24 |
| 10 | 45,2 | 1990 | 3 | 42 | 37,8 | 1660 | 2 | 37 | 30,4 | 1330 | 3 | 31 | 23,0 | 1000 | 3 | 26 |
| 15 | 41,2 | 1820 | 2 | 45 | 33,9 | 1490 | 3 | 39 | 26,7 | 1170 | 2 | 34 | 19,3 | 840 | 2 | 29 |
| 20 | 37,4 | 1650 | 2 | 47 | 30,2 | 1330 | 3 | 42 | 23,0 | 1010 | 3 | 37 | 15,7 | 680 | 3 | 31 |
| V = 5700 m³/h (2 bieg) | | | | | | | | | | | | | | | | |
| | Tw1/Tw2 = 90/70°C | | | | Tw1/Tw2 = 80/60°C | | | | Tw1/Tw2 = 70/50°C | | | | Tw1/Tw2 = 60/40°C | | | |
| 0 | 61,7 | 2720 | 4 | 33 | 53,0 | 2330 | 4 | 28 | 44,2 | 1930 | 3 | 24 | 35,3 | 1540 | 4 | 19 |
| 5 | 57,0 | 2510 | 5 | 36 | 48,3 | 2120 | 3 | 31 | 39,6 | 1730 | 2 | 27 | 30,9 | 1350 | 3 | 22 |
| 10 | 52,3 | 2310 | 4 | 39 | 43,7 | 1920 | 3 | 34 | 35,1 | 1540 | 4 | 30 | 26,5 | 1160 | 2 | 25 |
| 15 | 47,7 | 2100 | 3 | 42 | 39,3 | 1730 | 2 | 37 | 30,8 | 1350 | 3 | 32 | 22,2 | 970 | 3 | 28 |
| 20 | 43,3 | 1910 | 3 | 45 | 34,9 | 1530 | 4 | 40 | 26,5 | 1160 | 2 | 35 | 18,0 | 790 | 2 | 30 |
| V = 7600 m³/h (3 bieg) | | | | | | | | | | | | | | | | |
| | Tw1/Tw2 = 90/70°C | | | | Tw1/Tw2 = 80/60°C | | | | Tw1/Tw2 = 70/50°C | | | | Tw1/Tw2 = 60/40°C | | | |
| 0 | 74,2 | 3270 | 5 | 29 | 63,5 | 2790 | 4 | 25 | 52,9 | 2310 | 4 | 21 | 42,2 | 1840 | 3 | 17 |
| 5 | 68,5 | 3020 | 5 | 32 | 58,0 | 2550 | 5 | 28 | 47,4 | 2080 | 3 | 24 | 36,8 | 1610 | 2 | 20 |
| 10 | 62,8 | 2770 | 4 | 36 | 52,5 | 2300 | 4 | 31 | 42,1 | 1840 | 3 | 27 | 31,6 | 1380 | 3 | 23 |
| 15 | 57,4 | 2530 | 5 | 39 | 47,1 | 2070 | 3 | 35 | 36,8 | 1610 | 2 | 30 | 26,5 | 1150 | 2 | 26 |
| 20 | 52,0 | 2290 | 4 | 42 | 41,9 | 1840 | 3 | 38 | 31,7 | 1390 | 3 | 33 | 21,4 | 930 | 2 | 29 |

V – przepływ powietrza / air flow

PT – moc grzewcza / heating capacity

Tp1 – temperatura powietrza na wlocie do urządzenia / inlet air temperature

Tp2 – temperatura powietrza na wylocie z urządzenia / outlet air temperature

Tw1 – temperatura wody na zasilaniu wymiennika / inlet water temperature

Tw2 – temperatura wody na powrocie z wymiennika / outlet water temperature

Qw – strumień przepływu wody grzewczej / heating water stream

Δpw – spadek ciśnienia wody w wymienniku / water pressure