

# F370 EN F470 VAN NIBE

Verklaring voor de energieprestaties conform NEN 7120 (EPG), voor een individueel verwarmingstoestel, niet behorend tot warmtelevering door derden.

**-Nieuwbouw en bestaande bouw-**

Deze verklaring is opgesteld conform bijlage E van NEN 7120 (EPG), inclusief correctieblad C2/C5, juli 2014.

- Voor berekening is gebruik gemaakt van de rekentool versie "20170630 Rekentool NEN 7120 v3-4", geleverd door de DHPA, ter beschikking gesteld door NIBE.
- Deze verklaring geldt voor de F370- en technisch gelijke warmtepomp F470.
- De tabellen geven voor een verdamper-luchtdebiet van 110, 150 en 200 m<sup>3</sup>/uur de prestaties:
  - Het opwekkingsrendement op ruimteverwarming
  - Energiefractie.
  - Daarvoor benodigde hulpenergie.
- De prestaties van de warmtepomp zijn gemeten door NIBE, Zweden, voor wat prestatiemetingen betreft conform EN 14511-3:2013 en aanvullende tests conform EN 14511-4:2013:
  - Report EN14511 F-370 20\_35
  - Report EN14511 F-370 20\_45
  - Report EN14511 F-370 20\_55
- Deze verklaring is van toepassing op het deel van de woning dat is aangesloten op zowel de warmtepomp als (eventueel) de ketel.
- Voor de binnentemperatuur geldt een instelwaarde van 20 °C, zonder nachtverlaging.
- Als bron wordt aangeboden:
  - Ventilatielucht.
  - Tijdens compressorbedrijf dient het ventilatiedebiet van de woning (ook bij toepassing met CO<sub>2</sub> gestuurde ventilatie) groter te zijn dan het voor de F730/F470 benodigde debiet (110, 150 of 200 m<sup>3</sup>/uur).
- In de toepassing moet met oog op comfort zorg worden gedragen voor een gelijkmatige verdeling van ventilatielucht in de woning. Eventueel effect op de bruto warmtebehoefte van de woning moet worden verdisconteerd, conform NEN7120.
- Voor tussenliggende waarden in de tabellen kan lineair worden geïnterpoleerd.
- De resultaten moeten (e.v.t. na interpolatie) conform norm naar beneden worden afgerond op een veelvoud van 0,025

Referenties:

1. Berekening van opwekkingrendement lucht-naar-water warmtepompen volgens bijlage E, NEN 7120 (EPG).

Rhenen, vrijdag 12 januari 2018

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# NIBE F370, 110 m<sup>3</sup>/h, WLE

NIBE F370-110

Bron: Alleen ventilatielucht

datum en tijd 5-dec-2017 13:52

|  |                                | θ <sub>sup</sub> =< 30 °C                      |       |       |       |       |       |       |       |  |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
|  |                                | QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |  |
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]                      |       |       |       |       |       |       |       |  |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 30,55                                    | η <sub>H;gench,psi</sub> [-]   | 4,112  | 4,112 | 4,112 | 4,119 | 4,135 | 4,142 | 4,145 | 4,147 |  |
|  | F <sub>H;gensl,gpref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,947 | 0,691 | 0,512 | 0,402 | 0,329 |  |
|  | W <sub>H;aux</sub> [MJ-elek]   | 284  | 316   | 380   | 494   | 604   | 642   | 661   | 669   |  |

|  |                                | 30 °C < θ <sub>sup</sub> =< 35 °C              |       |       |       |       |       |       |       |  |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
|  |                                | QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |  |
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]                      |       |       |       |       |       |       |       |  |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 30,55                                    | η <sub>H;gench,psi</sub> [-]   | 4,023  | 4,023 | 4,023 | 4,033 | 4,055 | 4,065 | 4,070 | 4,073 |  |
|  | F <sub>H;gensl,gpref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,948 | 0,691 | 0,512 | 0,402 | 0,329 |  |
|  | W <sub>H;aux</sub> [MJ-elek]   | 285  | 318   | 383   | 500   | 611   | 650   | 668   | 677   |  |

|  |                                | 35 °C < θ <sub>sup</sub> =< 40 °C              |       |       |       |       |       |       |       |  |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
|  |                                | QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |  |
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]                      |       |       |       |       |       |       |       |  |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 30,55                                    | η <sub>H;gench,psi</sub> [-]   | 3,928  | 3,928 | 3,928 | 3,942 | 3,977 | 3,992 | 3,999 | 4,003 |  |
|  | F <sub>H;gensl,gpref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,948 | 0,692 | 0,513 | 0,403 | 0,329 |  |
|  | W <sub>H;aux</sub> [MJ-elek]   | 286  | 319   | 386   | 505   | 619   | 658   | 676   | 685   |  |

|  |                                | 40 °C < θ <sub>sup</sub> =< 45 °C              |       |       |       |       |       |       |       |  |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
|  |                                | QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |  |
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]                      |       |       |       |       |       |       |       |  |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 30,55                                    | η <sub>H;gench,psi</sub> [-]   | 3,831  | 3,831 | 3,831 | 3,851 | 3,897 | 3,917 | 3,927 | 3,932 |  |
|  | F <sub>H;gensl,gpref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,949 | 0,693 | 0,514 | 0,404 | 0,330 |  |
|  | W <sub>H;aux</sub> [MJ-elek]   | 287  | 321   | 390   | 512   | 627   | 667   | 685   | 694   |  |

|  |                                | 45 °C < θ <sub>sup</sub> =< 50 °C              |       |       |       |       |       |       |       |  |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
|  |                                | QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |  |
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]                      |       |       |       |       |       |       |       |  |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 30,55                                    | η <sub>H;gench,psi</sub> [-]   | 3,742  | 3,742 | 3,742 | 3,765 | 3,815 | 3,837 | 3,848 | 3,854 |  |
|  | F <sub>H;gensl,gpref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,949 | 0,694 | 0,514 | 0,404 | 0,330 |  |
|  | W <sub>H;aux</sub> [MJ-elek]   | 287  | 323   | 393   | 518   | 635   | 675   | 694   | 703   |  |

|  |                                | 50 °C < θ <sub>sup</sub> =< 55 °C              |       |       |       |       |       |       |       |  |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
|  |                                | QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |  |
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]                      |       |       |       |       |       |       |       |  |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 30,55                                    | η <sub>H;gench,psi</sub> [-]   | 3,643  | 3,643 | 3,643 | 3,671 | 3,733 | 3,760 | 3,774 | 3,780 |  |
|  | F <sub>H;gensl,gpref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,950 | 0,694 | 0,515 | 0,404 | 0,331 |  |
|  | W <sub>H;aux</sub> [MJ-elek]   | 288  | 325   | 397   | 525   | 644   | 685   | 703   | 713   |  |

|  |                                | 55 °C < θ <sub>sup</sub> =< 65 °C              |       |       |       |       |       |       |       |  |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
|  |                                | QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |  |
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]                      |       |       |       |       |       |       |       |  |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 30,55                                    | η <sub>H;gench,psi</sub> [-]   | 3,354  | 3,354 | 3,354 | 3,366 | 3,426 | 3,454 | 3,468 | 3,476 |  |
|  | F <sub>H;gensl,gpref</sub> [-] | 0,936  | 0,936 | 0,936 | 0,911 | 0,677 | 0,504 | 0,397 | 0,325 |  |
|  | W <sub>H;aux</sub> [MJ-elek]   | 289  | 326   | 399   | 537   | 668   | 713   | 734   | 744   |  |

|  |                                | 65 °C < θ <sub>sup</sub> =< 75 °C              |       |       |       |       |       |       |       |  |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
|  |                                | QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |  |
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]                      |       |       |       |       |       |       |       |  |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 30,55                                    | η <sub>H;gench,psi</sub> [-]   | 3,244  | 3,244 | 3,244 | 3,244 | 3,296 | 3,328 | 3,345 | 3,354 |  |
|  | F <sub>H;gensl,gpref</sub> [-] | 0,763  | 0,763 | 0,763 | 0,763 | 0,605 | 0,456 | 0,361 | 0,296 |  |
|  | W <sub>H;aux</sub> [MJ-elek]   | 283  | 314   | 376   | 500   | 638   | 685   | 706   | 717   |  |

# NIBE F370, 110 m<sup>3</sup>/h, WHE

NIBE F370-110

Bron: Alleen ventilatielucht

datum en tijd 5-dec-2017 13:50

|  |                                  | θ <sub>sup</sub> =< 30 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |  |
|--|----------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                  | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |  |
|  |                                  | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 30,55                                    | η <sub>H;genh;psi</sub> [-]      | 4,128  | 4,128 | 4,128 | 4,130 | 4,146 | 4,154 | 4,158 | 4,160 |  |
|  | F <sub>H;gens;i;g;pref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,987 | 0,787 | 0,592 | 0,466 | 0,382 |  |
|  | W <sub>H;aux</sub> [MJ-elek]     | 284  | 316   | 380   | 504   | 652   | 702   | 724   | 735   |  |

|  |                                  | 30 °C < θ <sub>sup</sub> =< 35 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |  |
|--|----------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                  | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |  |
|  |                                  | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 30,55                                    | η <sub>H;genh;psi</sub> [-]      | 4,046  | 4,046 | 4,046 | 4,049 | 4,071 | 4,083 | 4,088 | 4,091 |  |
|  | F <sub>H;gens;i;g;pref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,987 | 0,787 | 0,593 | 0,466 | 0,382 |  |
|  | W <sub>H;aux</sub> [MJ-elek]     | 285  | 317   | 382   | 509   | 659   | 711   | 732   | 743   |  |

|  |                                  | 35 °C < θ <sub>sup</sub> =< 40 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |  |
|--|----------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                  | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |  |
|  |                                  | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 30,55                                    | η <sub>H;genh;psi</sub> [-]      | 3,962  | 3,962 | 3,962 | 3,966 | 4,000 | 4,018 | 4,026 | 4,030 |  |
|  | F <sub>H;gens;i;g;pref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,987 | 0,788 | 0,594 | 0,467 | 0,382 |  |
|  | W <sub>H;aux</sub> [MJ-elek]     | 285  | 319   | 385   | 514   | 667   | 719   | 740   | 752   |  |

|  |                                  | 40 °C < θ <sub>sup</sub> =< 45 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |  |
|--|----------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                  | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |  |
|  |                                  | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 30,55                                    | η <sub>H;genh;psi</sub> [-]      | 3,876  | 3,876 | 3,876 | 3,883 | 3,928 | 3,951 | 3,962 | 3,968 |  |
|  | F <sub>H;gens;i;g;pref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,988 | 0,789 | 0,594 | 0,467 | 0,383 |  |
|  | W <sub>H;aux</sub> [MJ-elek]     | 286  | 320   | 388   | 520   | 675   | 727   | 749   | 760   |  |

|  |                                  | 45 °C < θ <sub>sup</sub> =< 50 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |  |
|--|----------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                  | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |  |
|  |                                  | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 30,55                                    | η <sub>H;genh;psi</sub> [-]      | 3,792  | 3,792 | 3,792 | 3,799 | 3,849 | 3,875 | 3,887 | 3,893 |  |
|  | F <sub>H;gens;i;g;pref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,988 | 0,790 | 0,595 | 0,467 | 0,383 |  |
|  | W <sub>H;aux</sub> [MJ-elek]     | 287  | 322   | 391   | 526   | 684   | 737   | 758   | 770   |  |

|  |                                  | 50 °C < θ <sub>sup</sub> =< 55 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |  |
|--|----------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                  | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |  |
|  |                                  | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 30,55                                    | η <sub>H;genh;psi</sub> [-]      | 3,703  | 3,703 | 3,703 | 3,713 | 3,775 | 3,806 | 3,821 | 3,828 |  |
|  | F <sub>H;gens;i;g;pref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,988 | 0,791 | 0,596 | 0,468 | 0,384 |  |
|  | W <sub>H;aux</sub> [MJ-elek]     | 288  | 323   | 394   | 532   | 693   | 746   | 768   | 779   |  |

|  |                                  | 55 °C < θ <sub>sup</sub> =< 65 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |  |
|--|----------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                  | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |  |
|  |                                  | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 30,55                                    | η <sub>H;genh;psi</sub> [-]      | 3,415  | 3,415 | 3,415 | 3,416 | 3,473 | 3,508 | 3,524 | 3,533 |  |
|  | F <sub>H;gens;i;g;pref</sub> [-] | 0,950  | 0,950 | 0,950 | 0,948 | 0,774 | 0,585 | 0,461 | 0,378 |  |
|  | W <sub>H;aux</sub> [MJ-elek]     | 289  | 325   | 399   | 544   | 721   | 779   | 802   | 815   |  |

|  |                                  | 65 °C < θ <sub>sup</sub> =< 75 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |  |
|--|----------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                  | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |  |
|  |                                  | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 30,55                                    | η <sub>H;genh;psi</sub> [-]      | 3,310  | 3,310 | 3,310 | 3,310 | 3,353 | 3,393 | 3,412 | 3,423 |  |
|  | F <sub>H;gens;i;g;pref</sub> [-] | 0,809  | 0,809 | 0,809 | 0,809 | 0,701 | 0,538 | 0,425 | 0,349 |  |
|  | W <sub>H;aux</sub> [MJ-elek]     | 284  | 317   | 381   | 509   | 693   | 753   | 776   | 789   |  |

# NIBE F370, 150 m<sup>3</sup>/h, WLE

NIBE F370-150

Bron: Alleen ventilatielucht

datum en tijd 5-dec-2017 13:54

|                                       |  | θ <sub>sup</sub> =< 30 °C                      |       |       |       |       |       |       |       |  |
|---------------------------------------|--|--|-------|-------|-------|-------|-------|-------|-------|--|
|                                       |  | QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |  |
| Ventilatiegebied [dm <sup>3</sup> /s] |  | Bruto warmtebehoefte [GJ]                      |       |       |       |       |       |       |       |  |
|                                       |  | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 41,66                                 | η <sub>Hg</sub> η <sub>hpsi</sub> [-]                    | 4,384  | 4,384 | 4,384 | 4,392 | 4,412 | 4,421 | 4,426 | 4,429 |  |
|                                       | F <sub>Hg</sub> η <sub>hpsi</sub> η <sub>gpref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,957 | 0,713 | 0,533 | 0,420 | 0,345 |  |
|                                       | W <sub>Haux</sub> [MJ-elek]                              | 282  | 311   | 370   | 478   | 587   | 627   | 646   | 656   |  |

|                                       |  | 30 °C < θ <sub>sup</sub> =< 35 °C              |       |       |       |       |       |       |       |  |
|---------------------------------------|--|--|-------|-------|-------|-------|-------|-------|-------|--|
|                                       |  | QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |  |
| Ventilatiegebied [dm <sup>3</sup> /s] |  | Bruto warmtebehoefte [GJ]                      |       |       |       |       |       |       |       |  |
|                                       |  | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 41,66                                 | η <sub>Hg</sub> η <sub>hpsi</sub> [-]                    | 4,270  | 4,270 | 4,270 | 4,281 | 4,310 | 4,324 | 4,330 | 4,334 |  |
|                                       | F <sub>Hg</sub> η <sub>hpsi</sub> η <sub>gpref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,957 | 0,713 | 0,533 | 0,420 | 0,345 |  |
|                                       | W <sub>Haux</sub> [MJ-elek]                              | 283  | 313   | 374   | 484   | 595   | 635   | 654   | 664   |  |

|                                       |  | 35 °C < θ <sub>sup</sub> =< 40 °C              |       |       |       |       |       |       |       |  |
|---------------------------------------|--|--|-------|-------|-------|-------|-------|-------|-------|--|
|                                       |  | QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |  |
| Ventilatiegebied [dm <sup>3</sup> /s] |  | Bruto warmtebehoefte [GJ]                      |       |       |       |       |       |       |       |  |
|                                       |  | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 41,66                                 | η <sub>Hg</sub> η <sub>hpsi</sub> [-]                    | 4,147  | 4,147 | 4,147 | 4,164 | 4,208 | 4,228 | 4,238 | 4,244 |  |
|                                       | F <sub>Hg</sub> η <sub>hpsi</sub> η <sub>gpref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,957 | 0,713 | 0,533 | 0,420 | 0,345 |  |
|                                       | W <sub>Haux</sub> [MJ-elek]                              | 283  | 315   | 377   | 490   | 603   | 644   | 663   | 673   |  |

|                                       |  | 40 °C < θ <sub>sup</sub> =< 45 °C              |       |       |       |       |       |       |       |  |
|---------------------------------------|--|--|-------|-------|-------|-------|-------|-------|-------|--|
|                                       |  | QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |  |
| Ventilatiegebied [dm <sup>3</sup> /s] |  | Bruto warmtebehoefte [GJ]                      |       |       |       |       |       |       |       |  |
|                                       |  | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 41,66                                 | η <sub>Hg</sub> η <sub>hpsi</sub> [-]                    | 4,022  | 4,022 | 4,022 | 4,045 | 4,104 | 4,130 | 4,144 | 4,151 |  |
|                                       | F <sub>Hg</sub> η <sub>hpsi</sub> η <sub>gpref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,957 | 0,713 | 0,533 | 0,420 | 0,345 |  |
|                                       | W <sub>Haux</sub> [MJ-elek]                              | 284  | 317   | 381   | 497   | 612   | 653   | 672   | 683   |  |

|                                       |  | 45 °C < θ <sub>sup</sub> =< 50 °C              |       |       |       |       |       |       |       |  |
|---------------------------------------|--|--|-------|-------|-------|-------|-------|-------|-------|--|
|                                       |  | QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |  |
| Ventilatiegebied [dm <sup>3</sup> /s] |  | Bruto warmtebehoefte [GJ]                      |       |       |       |       |       |       |       |  |
|                                       |  | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 41,66                                 | η <sub>Hg</sub> η <sub>hpsi</sub> [-]                    | 3,909  | 3,909 | 3,909 | 3,934 | 4,000 | 4,029 | 4,043 | 4,052 |  |
|                                       | F <sub>Hg</sub> η <sub>hpsi</sub> η <sub>gpref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,957 | 0,713 | 0,533 | 0,420 | 0,345 |  |
|                                       | W <sub>Haux</sub> [MJ-elek]                              | 285  | 319   | 385   | 504   | 622   | 663   | 683   | 693   |  |

|                                       |  | 50 °C < θ <sub>sup</sub> =< 55 °C              |       |       |       |       |       |       |       |  |
|---------------------------------------|--|--|-------|-------|-------|-------|-------|-------|-------|--|
|                                       |  | QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |  |
| Ventilatiegebied [dm <sup>3</sup> /s] |  | Bruto warmtebehoefte [GJ]                      |       |       |       |       |       |       |       |  |
|                                       |  | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 41,66                                 | η <sub>Hg</sub> η <sub>hpsi</sub> [-]                    | 3,779  | 3,779 | 3,779 | 3,812 | 3,892 | 3,928 | 3,946 | 3,956 |  |
|                                       | F <sub>Hg</sub> η <sub>hpsi</sub> η <sub>gpref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,957 | 0,713 | 0,533 | 0,420 | 0,345 |  |
|                                       | W <sub>Haux</sub> [MJ-elek]                              | 287  | 321   | 389   | 512   | 632   | 674   | 693   | 704   |  |

|                                       |  | 55 °C < θ <sub>sup</sub> =< 65 °C              |       |       |       |       |       |       |       |  |
|---------------------------------------|--|--|-------|-------|-------|-------|-------|-------|-------|--|
|                                       |  | QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |  |
| Ventilatiegebied [dm <sup>3</sup> /s] |  | Bruto warmtebehoefte [GJ]                      |       |       |       |       |       |       |       |  |
|                                       |  | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 41,66                                 | η <sub>Hg</sub> η <sub>hpsi</sub> [-]                    | 3,410  | 3,410 | 3,410 | 3,424 | 3,500 | 3,537 | 3,556 | 3,566 |  |
|                                       | F <sub>Hg</sub> η <sub>hpsi</sub> η <sub>gpref</sub> [-] | 0,936  | 0,936 | 0,936 | 0,916 | 0,693 | 0,520 | 0,410 | 0,337 |  |
|                                       | W <sub>Haux</sub> [MJ-elek]                              | 288  | 323   | 394   | 529   | 662   | 708   | 730   | 741   |  |

|                                       |  | 65 °C < θ <sub>sup</sub> =< 75 °C              |       |       |       |       |       |       |       |  |
|---------------------------------------|--|--|-------|-------|-------|-------|-------|-------|-------|--|
|                                       |  | QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |  |
| Ventilatiegebied [dm <sup>3</sup> /s] |  | Bruto warmtebehoefte [GJ]                      |       |       |       |       |       |       |       |  |
|                                       |  | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 41,66                                 | η <sub>Hg</sub> η <sub>hpsi</sub> [-]                    | 3,227  | 3,227 | 3,227 | 3,228 | 3,303 | 3,346 | 3,368 | 3,381 |  |
|                                       | F <sub>Hg</sub> η <sub>hpsi</sub> η <sub>gpref</sub> [-] | 0,816  | 0,816 | 0,816 | 0,815 | 0,642 | 0,486 | 0,385 | 0,317 |  |
|                                       | W <sub>Haux</sub> [MJ-elek]                              | 285  | 318   | 383   | 514   | 655   | 703   | 725   | 737   |  |

# NIBE F370, 150 m<sup>3</sup>/h, WHE

NIBE F370-150

Bron: Alleen ventilatielucht

datum en tijd 5-dec-2017 13:54

|  |                                | θ <sub>sup</sub> =< 30 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |
| 41,66                                    | η <sub>H;gensh,psi</sub> [-]   | 4,405  | 4,405 | 4,405 | 4,407 | 4,426 | 4,437 | 4,442 | 4,445 |
|  | F <sub>H;gensl,gpref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,990 | 0,810 | 0,617 | 0,488 | 0,401 |
|  | W <sub>H;aux</sub> [MJ-elek]   | 282  | 311   | 370   | 485   | 631   | 684   | 707   | 719   |

|  |                                | 30 °C < θ <sub>sup</sub> =< 35 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |
| 41,66                                    | η <sub>H;gensh,psi</sub> [-]   | 4,299  | 4,299 | 4,299 | 4,303 | 4,330 | 4,346 | 4,354 | 4,358 |
|  | F <sub>H;gensl,gpref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,990 | 0,810 | 0,617 | 0,488 | 0,401 |
|  | W <sub>H;aux</sub> [MJ-elek]   | 282  | 312   | 373   | 491   | 640   | 693   | 717   | 729   |

|  |                                | 35 °C < θ <sub>sup</sub> =< 40 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |
| 41,66                                    | η <sub>H;gensh,psi</sub> [-]   | 4,191  | 4,191 | 4,191 | 4,196 | 4,237 | 4,261 | 4,272 | 4,278 |
|  | F <sub>H;gensl,gpref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,990 | 0,810 | 0,617 | 0,488 | 0,401 |
|  | W <sub>H;aux</sub> [MJ-elek]   | 283  | 314   | 376   | 497   | 648   | 702   | 725   | 738   |

|  |                                | 40 °C < θ <sub>sup</sub> =< 45 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |
| 41,66                                    | η <sub>H;gensh,psi</sub> [-]   | 4,079  | 4,079 | 4,079 | 4,086 | 4,143 | 4,174 | 4,189 | 4,197 |
|  | F <sub>H;gensl,gpref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,990 | 0,810 | 0,617 | 0,488 | 0,401 |
|  | W <sub>H;aux</sub> [MJ-elek]   | 284  | 316   | 379   | 503   | 657   | 712   | 735   | 747   |

|  |                                | 45 °C < θ <sub>sup</sub> =< 50 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |
| 41,66                                    | η <sub>H;gensh,psi</sub> [-]   | 3,972  | 3,972 | 3,972 | 3,980 | 4,042 | 4,077 | 4,093 | 4,102 |
|  | F <sub>H;gensl,gpref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,990 | 0,810 | 0,617 | 0,488 | 0,401 |
|  | W <sub>H;aux</sub> [MJ-elek]   | 285  | 317   | 383   | 510   | 667   | 723   | 746   | 759   |

|  |                                | 50 °C < θ <sub>sup</sub> =< 55 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |
| 41,66                                    | η <sub>H;gensh,psi</sub> [-]   | 3,856  | 3,856 | 3,856 | 3,866 | 3,944 | 3,986 | 4,006 | 4,017 |
|  | F <sub>H;gensl,gpref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,990 | 0,810 | 0,617 | 0,488 | 0,401 |
|  | W <sub>H;aux</sub> [MJ-elek]   | 286  | 319   | 387   | 517   | 678   | 733   | 757   | 769   |

|  |                                | 55 °C < θ <sub>sup</sub> =< 65 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |
| 41,66                                    | η <sub>H;gensh,psi</sub> [-]   | 3,487  | 3,487 | 3,487 | 3,488 | 3,558 | 3,604 | 3,626 | 3,639 |
|  | F <sub>H;gensl,gpref</sub> [-] | 0,950  | 0,950 | 0,950 | 0,949 | 0,789 | 0,603 | 0,478 | 0,393 |
|  | W <sub>H;aux</sub> [MJ-elek]   | 288  | 323   | 393   | 534   | 712   | 772   | 798   | 811   |

|  |                                | 65 °C < θ <sub>sup</sub> =< 75 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |
| 41,66                                    | η <sub>H;gensh,psi</sub> [-]   | 3,313  | 3,313 | 3,313 | 3,313 | 3,373 | 3,427 | 3,454 | 3,469 |
|  | F <sub>H;gensl,gpref</sub> [-] | 0,853  | 0,853 | 0,853 | 0,853 | 0,739 | 0,570 | 0,453 | 0,373 |
|  | W <sub>H;aux</sub> [MJ-elek]   | 286  | 319   | 386   | 519   | 706   | 769   | 795   | 808   |

# NIBE F370, 200 m<sup>3</sup>/h, WLE

NIBE F370-200

Bron: Alleen ventilatielucht

datum en tijd 5-dec-2017 13:56

|  |                               | θ <sub>sup</sub> =< 30 °C<br>QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |
|--|-------------------------------|---|-------|-------|-------|-------|-------|-------|-------|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                               | Bruto warmtebehoefte [GJ]   |       |       |       |       |       |       |       |
|  |                               | 2,5   | 5     | 10    | 20    | 40    | 60    | 80    | 100   |
| 55,55                                    | η <sub>Hgenhpsi</sub> [-]     | 4,483   | 4,483 | 4,483 | 4,489 | 4,507 | 4,516 | 4,520 | 4,523 |
|  | F <sub>Hgenai,gpref</sub> [-] | 1,000   | 1,000 | 1,000 | 0,967 | 0,740 | 0,558 | 0,441 | 0,364 |
|  | W <sub>Haux</sub> [MJ-elek]   | 281   | 309   | 365   | 470   | 585   | 628   | 648   | 659   |

|  |                               | 30 °C < θ <sub>sup</sub> =< 35 °C<br>QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |
|--|-------------------------------|---|-------|-------|-------|-------|-------|-------|-------|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                               | Bruto warmtebehoefte [GJ]   |       |       |       |       |       |       |       |
|  |                               | 2,5   | 5     | 10    | 20    | 40    | 60    | 80    | 100   |
| 55,55                                    | η <sub>Hgenhpsi</sub> [-]     | 4,381   | 4,381 | 4,381 | 4,389 | 4,415 | 4,428 | 4,434 | 4,438 |
|  | F <sub>Hgenai,gpref</sub> [-] | 1,000   | 1,000 | 1,000 | 0,967 | 0,740 | 0,558 | 0,441 | 0,364 |
|  | W <sub>Haux</sub> [MJ-elek]   | 281   | 310   | 368   | 475   | 592   | 635   | 655   | 667   |

|  |                               | 35 °C < θ <sub>sup</sub> =< 40 °C<br>QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |
|--|-------------------------------|---|-------|-------|-------|-------|-------|-------|-------|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                               | Bruto warmtebehoefte [GJ]   |       |       |       |       |       |       |       |
|  |                               | 2,5   | 5     | 10    | 20    | 40    | 60    | 80    | 100   |
| 55,55                                    | η <sub>Hgenhpsi</sub> [-]     | 4,271   | 4,271 | 4,271 | 4,283 | 4,322 | 4,341 | 4,351 | 4,356 |
|  | F <sub>Hgenai,gpref</sub> [-] | 1,000   | 1,000 | 1,000 | 0,967 | 0,740 | 0,558 | 0,441 | 0,364 |
|  | W <sub>Haux</sub> [MJ-elek]   | 282   | 312   | 371   | 481   | 599   | 643   | 663   | 675   |

|  |                               | 40 °C < θ <sub>sup</sub> =< 45 °C<br>QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |
|--|-------------------------------|---|-------|-------|-------|-------|-------|-------|-------|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                               | Bruto warmtebehoefte [GJ]   |       |       |       |       |       |       |       |
|  |                               | 2,5   | 5     | 10    | 20    | 40    | 60    | 80    | 100   |
| 55,55                                    | η <sub>Hgenhpsi</sub> [-]     | 4,159   | 4,159 | 4,159 | 4,175 | 4,228 | 4,253 | 4,266 | 4,273 |
|  | F <sub>Hgenai,gpref</sub> [-] | 1,000   | 1,000 | 1,000 | 0,967 | 0,740 | 0,558 | 0,441 | 0,364 |
|  | W <sub>Haux</sub> [MJ-elek]   | 283   | 313   | 374   | 487   | 607   | 651   | 671   | 683   |

|  |                               | 45 °C < θ <sub>sup</sub> =< 50 °C<br>QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |
|--|-------------------------------|---|-------|-------|-------|-------|-------|-------|-------|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                               | Bruto warmtebehoefte [GJ]   |       |       |       |       |       |       |       |
|  |                               | 2,5   | 5     | 10    | 20    | 40    | 60    | 80    | 100   |
| 55,55                                    | η <sub>Hgenhpsi</sub> [-]     | 4,058   | 4,058 | 4,058 | 4,077 | 4,135 | 4,162 | 4,176 | 4,185 |
|  | F <sub>Hgenai,gpref</sub> [-] | 1,000   | 1,000 | 1,000 | 0,967 | 0,740 | 0,558 | 0,441 | 0,364 |
|  | W <sub>Haux</sub> [MJ-elek]   | 283   | 315   | 377   | 493   | 615   | 659   | 680   | 692   |

|  |                               | 50 °C < θ <sub>sup</sub> =< 55 °C<br>QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |
|--|-------------------------------|---|-------|-------|-------|-------|-------|-------|-------|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                               | Bruto warmtebehoefte [GJ]   |       |       |       |       |       |       |       |
|  |                               | 2,5   | 5     | 10    | 20    | 40    | 60    | 80    | 100   |
| 55,55                                    | η <sub>Hgenhpsi</sub> [-]     | 3,943   | 3,943 | 3,943 | 3,966 | 4,038 | 4,072 | 4,089 | 4,099 |
|  | F <sub>Hgenai,gpref</sub> [-] | 1,000   | 1,000 | 1,000 | 0,967 | 0,740 | 0,558 | 0,441 | 0,364 |
|  | W <sub>Haux</sub> [MJ-elek]   | 284   | 317   | 381   | 499   | 623   | 669   | 690   | 702   |

|  |                               | 55 °C < θ <sub>sup</sub> =< 65 °C<br>QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |
|--|-------------------------------|---|-------|-------|-------|-------|-------|-------|-------|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                               | Bruto warmtebehoefte [GJ]   |       |       |       |       |       |       |       |
|  |                               | 2,5   | 5     | 10    | 20    | 40    | 60    | 80    | 100   |
| 55,55                                    | η <sub>Hgenhpsi</sub> [-]     | 3,610   | 3,610 | 3,610 | 3,618 | 3,685 | 3,720 | 3,738 | 3,748 |
|  | F <sub>Hgenai,gpref</sub> [-] | 0,936   | 0,936 | 0,936 | 0,923 | 0,718 | 0,543 | 0,430 | 0,355 |
|  | W <sub>Haux</sub> [MJ-elek]   | 285   | 318   | 384   | 511   | 647   | 696   | 719   | 732   |

|  |                               | 65 °C < θ <sub>sup</sub> =< 75 °C<br>QH;dis / Ag;tot =< 150 MJ/m <sup>2</sup> (WLE) |       |       |       |       |       |       |       |
|--|-------------------------------|---|-------|-------|-------|-------|-------|-------|-------|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                               | Bruto warmtebehoefte [GJ]   |       |       |       |       |       |       |       |
|  |                               | 2,5   | 5     | 10    | 20    | 40    | 60    | 80    | 100   |
| 55,55                                    | η <sub>Hgenhpsi</sub> [-]     | 3,446   | 3,446 | 3,446 | 3,446 | 3,507 | 3,548 | 3,569 | 3,582 |
|  | F <sub>Hgenai,gpref</sub> [-] | 0,816   | 0,816 | 0,816 | 0,816 | 0,664 | 0,507 | 0,404 | 0,333 |
|  | W <sub>Haux</sub> [MJ-elek]   | 282   | 312   | 372   | 492   | 636   | 687   | 710   | 724   |

# NIBE F370, 200 m<sup>3</sup>/h, WHE

NIBE F370-200

Bron: Alleen ventilatielucht

datum en tijd 5-dec-2017 13:58

|  |                                | θ <sub>sup</sub> =< 30 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |  |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |  |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 55,55                                    | η <sub>Hgenschpsi</sub> [-]    | 4,502  | 4,502 | 4,502 | 4,503 | 4,519 | 4,530 | 4,535 | 4,538 |  |
|  | F <sub>Hgensch,ppref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,994 | 0,836 | 0,645 | 0,514 | 0,423 |  |
|  | W <sub>Haux</sub> [MJ-elek]    | 280  | 309   | 365   | 476   | 627   | 685   | 711   | 725   |  |

|  |                                | 30 °C < θ <sub>sup</sub> =< 35 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |  |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |  |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 55,55                                    | η <sub>Hgenschpsi</sub> [-]    | 4,407  | 4,407 | 4,407 | 4,409 | 4,433 | 4,448 | 4,455 | 4,459 |  |
|  | F <sub>Hgensch,ppref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,994 | 0,836 | 0,645 | 0,514 | 0,423 |  |
|  | W <sub>Haux</sub> [MJ-elek]    | 281  | 310   | 367   | 481   | 635   | 693   | 719   | 733   |  |

|  |                                | 35 °C < θ <sub>sup</sub> =< 40 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |  |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |  |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 55,55                                    | η <sub>Hgenschpsi</sub> [-]    | 4,310  | 4,310 | 4,310 | 4,313 | 4,348 | 4,371 | 4,382 | 4,388 |  |
|  | F <sub>Hgensch,ppref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,994 | 0,836 | 0,645 | 0,514 | 0,423 |  |
|  | W <sub>Haux</sub> [MJ-elek]    | 282  | 311   | 370   | 486   | 642   | 701   | 727   | 741   |  |

|  |                                | 40 °C < θ <sub>sup</sub> =< 45 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |  |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |  |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 55,55                                    | η <sub>Hgenschpsi</sub> [-]    | 4,211  | 4,211 | 4,211 | 4,215 | 4,262 | 4,292 | 4,307 | 4,315 |  |
|  | F <sub>Hgensch,ppref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,994 | 0,836 | 0,645 | 0,514 | 0,423 |  |
|  | W <sub>Haux</sub> [MJ-elek]    | 282  | 312   | 373   | 491   | 650   | 709   | 735   | 749   |  |

|  |                                | 45 °C < θ <sub>sup</sub> =< 50 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |  |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |  |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 55,55                                    | η <sub>Hgenschpsi</sub> [-]    | 4,115  | 4,115 | 4,115 | 4,120 | 4,172 | 4,205 | 4,222 | 4,230 |  |
|  | F <sub>Hgensch,ppref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,994 | 0,836 | 0,645 | 0,514 | 0,423 |  |
|  | W <sub>Haux</sub> [MJ-elek]    | 283  | 314   | 375   | 497   | 658   | 718   | 745   | 759   |  |

|  |                                | 50 °C < θ <sub>sup</sub> =< 55 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |  |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |  |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 55,55                                    | η <sub>Hgenschpsi</sub> [-]    | 4,012  | 4,012 | 4,012 | 4,018 | 4,084 | 4,124 | 4,144 | 4,155 |  |
|  | F <sub>Hgensch,ppref</sub> [-] | 1,000  | 1,000 | 1,000 | 0,994 | 0,836 | 0,645 | 0,514 | 0,423 |  |
|  | W <sub>Haux</sub> [MJ-elek]    | 284  | 315   | 379   | 503   | 667   | 728   | 754   | 768   |  |

|  |                                | 55 °C < θ <sub>sup</sub> =< 65 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |  |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |  |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 55,55                                    | η <sub>Hgenschpsi</sub> [-]    | 3,680  | 3,680 | 3,680 | 3,680 | 3,737 | 3,780 | 3,802 | 3,815 |  |
|  | F <sub>Hgensch,ppref</sub> [-] | 0,950  | 0,950 | 0,950 | 0,950 | 0,814 | 0,630 | 0,503 | 0,414 |  |
|  | W <sub>Haux</sub> [MJ-elek]    | 285  | 318   | 383   | 514   | 694   | 759   | 788   | 803   |  |

|  |                                | 65 °C < θ <sub>sup</sub> =< 75 °C<br>QH;dis / Ag;tot > 150 MJ/m <sup>2</sup> (WHE) |       |       |       |       |       |       |       |  |
|--|--------------------------------|--|-------|-------|-------|-------|-------|-------|-------|--|
| Ventilatiegebied<br>[dm <sup>3</sup> /s] |                                | Bruto warmtebehoefte [GJ]  |       |       |       |       |       |       |       |  |
|  |                                | 2,5  | 5     | 10    | 20    | 40    | 60    | 80    | 100   |  |
| 55,55                                    | η <sub>Hgenschpsi</sub> [-]    | 3,525  | 3,525 | 3,525 | 3,525 | 3,570 | 3,621 | 3,648 | 3,663 |  |
|  | F <sub>Hgensch,ppref</sub> [-] | 0,853  | 0,853 | 0,853 | 0,853 | 0,761 | 0,595 | 0,476 | 0,393 |  |
|  | W <sub>Haux</sub> [MJ-elek]    | 283  | 314   | 375   | 498   | 684   | 752   | 781   | 796   |  |