

| Table 2 | Calculation for seasonal space heating energy efficiency (Medium temperature application): | | | | | P | | | | |
|--|---|-----------------------------------|--|--|------|--------------------------------|--|--|--|--|
| Model: | HS15V-DPNNW | | Heat pump only <input type="checkbox"/> , reversible heat pump <input checked="" type="checkbox"/> | | | | | | | |
| Tdesignh (°C): | -10 | | | | | | | | | |
| Pdesignh (kW): | 12,454 | | | | | | | | | |
| Tbiv(°C): | -7 | | | | | | | | | |
| TOL(°C): | -10 | | | | | | | | | |
| | Part load (kW) | Measured capacity (kW) | COP at measured capacity | Cc | CRu | COP at part load | | | | |
| E | 12,454 | 9,892 | 2,37 | 0,00 | 1,00 | 2,37 | | | | |
| F | 11,017 | 11,017 | 2,67 | 0,00 | 1,00 | 2,67 | | | | |
| A | 11,017 | 11,017 | 2,67 | 0,00 | 1,00 | 2,67 | | | | |
| B | 6,706 | 6,691 | 3,89 | 0,00 | 1,00 | 3,89 | | | | |
| C | 4,311 | 5,705 | 5,36 | 0,90 | 0,76 | 5,19 | | | | |
| D | 1,916 | 6,686 | 7,03 | 0,90 | 0,29 | 5,63 | | | | |
| Low power mode power consumption | | | | | | | | | | |
| Thermostat-off mode [P _{TO}] W | | Standby mode [P _{SB}] W | | Crankcase heater [P _{CCK}] W | | Off mode [P _{OFF}] W | | | | |
| 0,002 | | 0,002 | | 0 | | 0,002 | | | | |
| SCOP _{on} : 3,99 | | | | | | | | | | |
| SCOP: 3,99 | | | | | | | | | | |
| Correction F(1) = 3% | | | | | | | | | | |
| Correction F(2) = 5% (for water/brine to water heat pump) | | | | | | | | | | |
| η_s : 156,6% | | | | | | | | | | |
| Seasonal space heating energy efficiency classes: A+++ (According (EU) No 811/2013 Table 1) | | | | | | | | | | |
| Supplementary information: CRu: part load divided by capacity. | | | | | | | | | | |

| Table 2a | Calculation for seasonal space heating energy efficiency (Low temperature application) | | | | | P | | | |
|--|---|---------------------------------|--|------------------------------|------|------------------|--|--|--|
| Model: | HS15V-DPNNW | | Heat pump only <input type="checkbox"/> , reversible heat pump <input checked="" type="checkbox"/> | | | | | | |
| Tdesignh (°C): | -10 | | | | | | | | |
| Pdesignh (kW): | 12,839 | | | | | | | | |
| Tbiv(°C): | -7 | | | | | | | | |
| TOL(°C): | -10 | | | | | | | | |
| | Part load (kW) | Measured capacity (kW) | COP at measured capacity | Cc | CRu | COP at part load | | | |
| E | 12,839 | 10,369 | 3,12 | 0,00 | 1,00 | 3,12 | | | |
| F | 11,358 | 11,358 | 3,40 | 0,00 | 1,00 | 3,40 | | | |
| A | 11,358 | 11,358 | 3,40 | 0,00 | 1,00 | 3,40 | | | |
| B | 6,913 | 7,134 | 4,82 | 0,00 | 0,97 | 4,82 | | | |
| C | 4,444 | 5,766 | 6,79 | 0,90 | 0,77 | 6,59 | | | |
| D | 1,975 | 6,217 | 7,96 | 0,90 | 0,32 | 6,55 | | | |
| Low power mode power consumption | | | | | | | | | |
| Thermostat-off mode [P _{TO}] W | | Standby mode [P _{SB}] | Crankcase heater [P _{CCK}] | Off mode [P _{OFF}] | | | | | |
| 0.002 | | 0.002 | 0 | 0.002 | | | | | |
| SCOP _{on} : 4,98 | | | | | | | | | |
| SCOP: 4,98 | | | | | | | | | |
| Correction F(1) = 3% | | | | | | | | | |
| Correction F(2) = 5% (for water/brine to water heat pump) | | | | | | | | | |
| η_s : 196,2% | | | | | | | | | |
| Seasonal space heating energy efficiency classes: A+++ (According (EU) No 811/2013 Table 2) | | | | | | | | | |
| Supplementary information: CRu: part load divided by capacity. | | | | | | | | | |

| Table 4: | Sound power level measurement | | | P | | |
|--|--|---------------------------|--------|---|--|--|
| Model : | HS15V-DPNNW | | | | | |
| | Heat source, Air temperature DB/WB (°C): | 7,0/6,0 | | | | |
| | Water inlet/outlet temperature(°C): | 47,0/54,9 | | | | |
| | Voltage (V): | 400,1V 3N ~ | | | | |
| | Frequency (Hz): | 50 Hz | | | | |
| | Working condition class.....: | Class A | | | | |
| | Acoustical environment.....: | Hemi-anechoic room | | | | |
| | Windshield type.....: | Sponge | | | | |
| | Measured position amount | 14 | | | | |
| Measured quantity | L _{WA} ,indoors | L _{WA} ,outdoors | Remark | | | |
| Sound pressure level L _{pt} **** | -- | 43 | -- | | | |
| Spheres radius r * | -- | 1,0m | -- | | | |
| Sound power level L _{WA} **** | -- | 58 | -- | | | |
| Supplementary information: Setting of controls: according to user manual. Duct connection: No duct. Fan speed: 650 r/min, compressor speed: 65Hz. | | | | | | |
| Rounding to: *) 1 decimal places; **) 2 decimal places; ***) 3 decimal places; ****) nearest integer | | | | | | |

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