

## Subtype Hi-Therma Split 4 6kW with 260L tank

|                     |                                                           |
|---------------------|-----------------------------------------------------------|
| Certificate Holder  | Qingdao Hisense Hitachi Air-conditioning Systems Co.,Ltd. |
| Address             | Qianwangang Road                                          |
| ZIP                 | 266555                                                    |
| City                | Qingdao, Shandong                                         |
| Country             | CN                                                        |
| Certification Body  | BRE Global Limited                                        |
| Subtype title       | Hi-Therma Split 4 6kW with 260L tank                      |
| Registration number | 041-k021-07                                               |
| Heat Pump Type      | Outdoor Air/Water                                         |
| Refrigerant         | R32                                                       |
| Mass of Refrigerant | 0.98 kg                                                   |
| Certification Date  | 20.03.2023                                                |
| Testing basis       | Heat-pump Keymark Scheme rules v11                        |

## Model AHW-044HCDS1+AHM-044HCDSAA/HDHWT-300L30H\*\*

|                                     |                                            |
|-------------------------------------|--------------------------------------------|
| Model name                          | AWH-044HCDS1+AHM-044HCDSAA/HDHWT-300L30H** |
| Application                         | Heating + DHW + low temp                   |
| Units                               | Indoor, Outdoor                            |
| Climate zone (for heating)          | n/a                                        |
| Reversibility                       | Yes                                        |
| Cooling mode application (optional) | n/a                                        |
| Any additional heat sources         | n/a                                        |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | n/a         |

## Outdoor Air/Water

## EN 16147 | Average Climate

|                                 |            |
|---------------------------------|------------|
| Declared load profile           | XL         |
| Efficiency $\eta_{DHW}$         | 137 %      |
| COP                             | 3.33       |
| Heating up time                 | 2:24 h:min |
| Standby power input             | 28.0 W     |
| Reference hot water temperature | 47.0 °C    |
| Mixed water at 40°C             | 280 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 | 4.40 kW         | 4.49 kW            |
| El input    | 0.83 kW         | 1.60 kW            |
| COP         | 5.30            | 2.81               |

## EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 42 dB(A)        | 42 dB(A)           |
| Sound power level outdoor | 61 dB(A)        | 61 dB(A)           |

## EN 14825 | Average Climate

|          | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| $\eta_s$ | 197 %           | 126 %              |
| Prated   | 4.44 kW         | 3.87 kW            |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| SCOP                                                | 5.00        | 3.23        |
| Tbiv                                                | -7 °C       | -7 °C       |
| TOL                                                 | -10 °C      | -10 °C      |
| Pdh Tj = -7°C                                       | 3.90 kW     | 3.40 kW     |
| COP Tj = -7°C                                       | 3.29        | 1.97        |
| Cdh Tj = -7 °C                                      | 0.900       | 0.900       |
| Pdh Tj = +2°C                                       | 2.39 kW     | 2.13 kW     |
| COP Tj = +2°C                                       | 4.80        | 3.22        |
| Cdh Tj = +2 °C                                      | 0.900       | 0.900       |
| Pdh Tj = +7°C                                       | 1.65 kW     | 1.41 kW     |
| COP Tj = +7°C                                       | 6.44        | 3.97        |
| Cdh Tj = +7 °C                                      | 0.900       | 0.900       |
| Pdh Tj = 12°C                                       | 2.22 kW     | 2.04 kW     |
| COP Tj = 12°C                                       | 9.92        | 7.24        |
| Cdh Tj = +12 °C                                     | 0.900       | 0.900       |
| Pdh Tj = Tbiv                                       | 3.90 kW     | 3.40 kW     |
| COP Tj = Tbiv                                       | 3.29        | 1.97        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.31 kW     | 3.54 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.62        | 1.68        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 10 W        | 10 W        |
| PTO                                                 | 11 W        | 11 W        |
| PSB                                                 | 10 W        | 10 W        |
| PCK                                                 | 1 W         | 1 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.13 kW     | 0.32 kW     |
| Annual energy consumption Qhe                       | 1824 kWh    | 2457 kWh    |

## Model AHW-060HCDS1+AHM-060HCDSAA/HDHWT-300L30H\*\*

|                                     |                                            |
|-------------------------------------|--------------------------------------------|
| Model name                          | AWH-060HCDS1+AHM-060HCDSAA/HDHWT-300L30H** |
| Application                         | Heating + DHW + low temp                   |
| Units                               | Indoor, Outdoor                            |
| Climate zone (for heating)          | n/a                                        |
| Reversibility                       | Yes                                        |
| Cooling mode application (optional) | n/a                                        |
| Any additional heat sources         | n/a                                        |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | n/a         |

## Outdoor Air/Water

## EN 16147 | Average Climate

|                                 |            |
|---------------------------------|------------|
| Declared load profile           | XL         |
| Efficiency $\eta_{DHW}$         | 137 %      |
| COP                             | 3.33       |
| Heating up time                 | 2:24 h:min |
| Standby power input             | 28.0 W     |
| Reference hot water temperature | 47.0 °C    |
| Mixed water at 40°C             | 280 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 | 5.85 kW         | 6.17 kW            |
| El input    | 1.22 kW         | 1.93 kW            |
| COP         | 4.80            | 3.19               |

## EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 42 dB(A)        | 42 dB(A)           |
| Sound power level outdoor | 62 dB(A)        | 62 dB(A)           |

## EN 14825 | Average Climate

|          | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| $\eta_s$ | 194 %           | 130 %              |
| Prated   | 6.09 kW         | 5.37 kW            |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| SCOP                                                | 4.93        | 3.33        |
| Tbiv                                                | -7 °C       | -7 °C       |
| TOL                                                 | -10 °C      | -10 °C      |
| Pdh Tj = -7°C                                       | 5.36 kW     | 4.72 kW     |
| COP Tj = -7°C                                       | 3.13        | 2.04        |
| Cdh Tj = -7 °C                                      | 0.900       | 0.900       |
| Pdh Tj = +2°C                                       | 3.25 kW     | 2.95 kW     |
| COP Tj = +2°C                                       | 4.67        | 3.21        |
| Cdh Tj = +2 °C                                      | 0.900       | 0.900       |
| Pdh Tj = +7°C                                       | 2.00 kW     | 1.97 kW     |
| COP Tj = +7°C                                       | 6.63        | 4.34        |
| Cdh Tj = +7 °C                                      | 0.900       | 0.900       |
| Pdh Tj = 12°C                                       | 2.22 kW     | 2.04 kW     |
| COP Tj = 12°C                                       | 9.92        | 7.24        |
| Cdh Tj = +12 °C                                     | 0.900       | 0.900       |
| Pdh Tj = Tbiv                                       | 5.36 kW     | 4.72 kW     |
| COP Tj = Tbiv                                       | 3.13        | 2.04        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.32 kW     | 4.53 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.66        | 1.75        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900       | 0.900       |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 10 W        | 10 W        |
| PTO                                                 | 11 W        | 11 W        |
| PSB                                                 | 10 W        | 10 W        |
| PCK                                                 | 1 W         | 1 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.74 kW     | 0.81 kW     |
| Annual energy consumption Qhe                       | 2539 kWh    | 3312 kWh    |