

## Subtype S735-7

|                     |                                                             |
|---------------------|-------------------------------------------------------------|
| Certificate Holder  | Nibe AB                                                     |
| Address             | Box 14                                                      |
| ZIP                 | S-28521                                                     |
| City                | Markaryd                                                    |
| Country             | SE                                                          |
| Certification Body  | RISE CERT                                                   |
| Subtype title       | S735-7                                                      |
| Registration number | 012-C700131                                                 |
| Heat Pump Type      | Exhaust Air/Water                                           |
| Refrigerant         | R290                                                        |
| Mass of Refrigerant | 0.42 kg                                                     |
| Certification Date  | 20.10.2022                                                  |
| Testing basis       | EN 14511:2018, EN 16147:2017, EN 14825:2018, EN 12102:2017. |

## Model S735-7 Cu

|                                     |                          |
|-------------------------------------|--------------------------|
| Model name                          | S735-7 Cu                |
| Application                         | Heating + DHW + low temp |
| Units                               | Indoor                   |
| Climate zone (for heating)          | n/a                      |
| Cooling mode application (optional) | n/a                      |
| Any additional heat sources         | n/a                      |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 3x400V 50Hz |
| Off-peak product | No          |

## Exhaust Air/Water

### EN 16147 | Average Climate

|                                 |            |
|---------------------------------|------------|
| Declared load profile           | XL         |
| Efficiency $\eta_{DHW}$         | 114 %      |
| COP                             | 2.70       |
| Heating up time                 | 2:43 h:min |
| Standby power input             | 77.0 W     |
| Reference hot water temperature | 49.0 °C    |
| Mixed water at 40°C             | 223 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 | 3.44 kW         | 4.38 kW            |
| El input    | 0.92 kW         | 1.60 kW            |
| COP         | 3.72            | 2.74               |

### EN 12102-1 | Average Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | dB(A)           | 44 dB(A)           |

### EN 14825 | Average Climate

|          | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| $\eta_s$ | 177 %           | 144 %              |
| Prated   | 5.60 kW         | 5.60 kW            |
| SCOP     | 4.50            | 3.67               |
| Tbiv     | -7 °C           | -10 °C             |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| TOL                                                 | -10 °C      | -10 °C      |
| Pdh Tj = -7°C                                       | 4.91 kW     | 4.91 kW     |
| COP Tj = -7°C                                       | 3.09        | 2.52        |
| Cdh Tj = -7 °C                                      | 0.970       | 0.980       |
| Pdh Tj = +2°C                                       | 3.01 kW     | 2.99 kW     |
| COP Tj = +2°C                                       | 4.84        | 3.77        |
| Cdh Tj = +2 °C                                      | 0.920       | 0.950       |
| Pdh Tj = +7°C                                       | 2.00 kW     | 1.98 kW     |
| COP Tj = +7°C                                       | 5.52        | 4.53        |
| Cdh Tj = +7 °C                                      | 0.900       | 0.910       |
| Pdh Tj = 12°C                                       | 1.59 kW     | 1.54 kW     |
| COP Tj = 12°C                                       | 5.87        | 5.20        |
| Cdh Tj = +12 °C                                     | 0.900       | 0.900       |
| Pdh Tj = Tbiv                                       | 4.91 kW     | 5.47 kW     |
| COP Tj = Tbiv                                       | 3.09        | 2.33        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.00 kW     | 5.47 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.97        | 2.33        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.970       | 0.980       |
| WTOL                                                | 65 °C       | 65 °C       |
| Poff                                                | 8 W         | 8 W         |
| PTO                                                 | 50 W        | 38 W        |
| PSB                                                 | 34 W        | 34 W        |
| PCK                                                 | 8 W         | 8 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.60 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2571 kWh    | 3156 kWh    |

| Model S735-7 E                             |                          |                    |
|--------------------------------------------|--------------------------|--------------------|
| Model name                                 | S735-7 E                 |                    |
| Application                                | Heating + DHW + low temp |                    |
| Units                                      | Indoor                   |                    |
| Climate zone (for heating)                 | n/a                      |                    |
| Cooling mode application (optional)        | n/a                      |                    |
| Any additional heat sources                | n/a                      |                    |
| General data                               |                          |                    |
| Power supply                               | 3x400V 50Hz              |                    |
| Off-peak product                           | No                       |                    |
| Exhaust Air/Water                          |                          |                    |
| EN 16147   Average Climate                 |                          |                    |
| Declared load profile                      | XL                       |                    |
| Efficiency $\eta_{DHW}$                    | 117 %                    |                    |
| COP                                        | 2.76                     |                    |
| Heating up time                            | 2:43 h:min               |                    |
| Standby power input                        | 77.0 W                   |                    |
| Reference hot water temperature            | 49.0 °C                  |                    |
| Mixed water at 40°C                        | 215 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                                | 3.44 kW                  | 4.38 kW            |
| El input                                   | 0.92 kW                  | 1.60 kW            |
| COP                                        | 3.72                     | 2.74               |
| EN 12102-1   Average Climate               |                          |                    |
|                                            | Low temperature          | Medium temperature |
| Sound power level indoor                   | dB(A)                    | 44 dB(A)           |
| EN 14825   Average Climate                 |                          |                    |
|                                            | Low temperature          | Medium temperature |
| $\eta_s$                                   | 177 %                    | 144 %              |
| Prated                                     | 5.60 kW                  | 5.60 kW            |
| SCOP                                       | 4.50                     | 3.67               |
| Tbiv                                       | -7 °C                    | -10 °C             |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| TOL                                                 | -10 °C      | -10 °C      |
| Pdh Tj = -7°C                                       | 4.91 kW     | 4.91 kW     |
| COP Tj = -7°C                                       | 3.09        | 2.52        |
| Cdh Tj = -7 °C                                      | 0.970       | 0.980       |
| Pdh Tj = +2°C                                       | 3.01 kW     | 2.99 kW     |
| COP Tj = +2°C                                       | 4.84        | 3.77        |
| Cdh Tj = +2 °C                                      | 0.920       | 0.950       |
| Pdh Tj = +7°C                                       | 2.00 kW     | 1.98 kW     |
| COP Tj = +7°C                                       | 5.52        | 4.53        |
| Cdh Tj = +7 °C                                      | 0.900       | 0.910       |
| Pdh Tj = 12°C                                       | 1.59 kW     | 1.54 kW     |
| COP Tj = 12°C                                       | 5.87        | 5.20        |
| Cdh Tj = +12 °C                                     | 0.900       | 0.900       |
| Pdh Tj = Tbiv                                       | 4.91 kW     | 5.47 kW     |
| COP Tj = Tbiv                                       | 3.09        | 2.33        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.00 kW     | 5.47 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.97        | 2.33        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.970       | 0.980       |
| WTOL                                                | 65 °C       | 65 °C       |
| Poff                                                | 8 W         | 8 W         |
| PTO                                                 | 50 W        | 38 W        |
| PSB                                                 | 34 W        | 34 W        |
| PCK                                                 | 8 W         | 8 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.60 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2571 kWh    | 3156 kWh    |

| Model S735-7 R                             |                          |                    |
|--------------------------------------------|--------------------------|--------------------|
| Model name                                 | S735-7 R                 |                    |
| Application                                | Heating + DHW + low temp |                    |
| Units                                      | Indoor                   |                    |
| Climate zone (for heating)                 | n/a                      |                    |
| Cooling mode application (optional)        | n/a                      |                    |
| Any additional heat sources                | n/a                      |                    |
| General data                               |                          |                    |
| Power supply                               | 3x400V 50Hz              |                    |
| Off-peak product                           | No                       |                    |
| Exhaust Air/Water                          |                          |                    |
| EN 16147   Average Climate                 |                          |                    |
| Declared load profile                      | XL                       |                    |
| Efficiency $\eta_{DHW}$                    | 117 %                    |                    |
| COP                                        | 2.76                     |                    |
| Heating up time                            | 2:43 h:min               |                    |
| Standby power input                        | 77.0 W                   |                    |
| Reference hot water temperature            | 49.0 °C                  |                    |
| Mixed water at 40°C                        | 215 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                                | 3.44 kW                  | 4.38 kW            |
| El input                                   | 0.92 kW                  | 1.60 kW            |
| COP                                        | 3.72                     | 2.74               |
| EN 12102-1   Average Climate               |                          |                    |
|                                            | Low temperature          | Medium temperature |
| Sound power level indoor                   | dB(A)                    | 44 dB(A)           |
| EN 14825   Average Climate                 |                          |                    |
|                                            | Low temperature          | Medium temperature |
| $\eta_s$                                   | 177 %                    | 144 %              |
| Prated                                     | 5.60 kW                  | 5.60 kW            |
| SCOP                                       | 4.50                     | 3.67               |
| Tbiv                                       | -7 °C                    | -10 °C             |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| TOL                                                 | -10 °C      | -10 °C      |
| Pdh Tj = -7°C                                       | 4.91 kW     | 4.91 kW     |
| COP Tj = -7°C                                       | 3.09        | 2.52        |
| Cdh Tj = -7 °C                                      | 0.970       | 0.980       |
| Pdh Tj = +2°C                                       | 3.01 kW     | 2.99 kW     |
| COP Tj = +2°C                                       | 4.84        | 3.77        |
| Cdh Tj = +2 °C                                      | 0.920       | 0.950       |
| Pdh Tj = +7°C                                       | 2.00 kW     | 1.98 kW     |
| COP Tj = +7°C                                       | 5.52        | 4.53        |
| Cdh Tj = +7 °C                                      | 0.900       | 0.910       |
| Pdh Tj = 12°C                                       | 1.59 kW     | 1.54 kW     |
| COP Tj = 12°C                                       | 5.87        | 5.20        |
| Cdh Tj = +12 °C                                     | 0.900       | 0.900       |
| Pdh Tj = Tbiv                                       | 4.91 kW     | 5.47 kW     |
| COP Tj = Tbiv                                       | 3.09        | 2.33        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.00 kW     | 5.47 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.97        | 2.33        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.970       | 0.980       |
| WTOL                                                | 65 °C       | 65 °C       |
| Poff                                                | 8 W         | 8 W         |
| PTO                                                 | 50 W        | 38 W        |
| PSB                                                 | 34 W        | 34 W        |
| PCK                                                 | 8 W         | 8 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.60 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2571 kWh    | 3156 kWh    |

## Model S735-7 R 1x230 V

|                                     |                          |
|-------------------------------------|--------------------------|
| Model name                          | S735-7 R 1x230 V         |
| Application                         | Heating + DHW + low temp |
| Units                               | Indoor                   |
| Climate zone (for heating)          | n/a                      |
| Cooling mode application (optional) | n/a                      |
| Any additional heat sources         | n/a                      |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | No          |

## Exhaust Air/Water

### EN 16147 | Average Climate

|                                 |            |
|---------------------------------|------------|
| Declared load profile           | XL         |
| Efficiency $\eta_{DHW}$         | 117 %      |
| COP                             | 2.76       |
| Heating up time                 | 2:43 h:min |
| Standby power input             | 77.0 W     |
| Reference hot water temperature | 49.0 °C    |
| Mixed water at 40°C             | 215 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 | 3.44 kW         | 4.38 kW            |
| El input    | 0.92 kW         | 1.60 kW            |
| COP         | 3.72            | 2.74               |

### EN 12102-1 | Average Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | dB(A)           | 44 dB(A)           |

### EN 14825 | Average Climate

|          | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| $\eta_s$ | 177 %           | 144 %              |
| Prated   | 5.60 kW         | 5.60 kW            |
| SCOP     | 4.50            | 3.67               |
| Tbiv     | -7 °C           | -10 °C             |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| TOL                                                 | -10 °C      | -10 °C      |
| Pdh Tj = -7°C                                       | 4.91 kW     | 4.91 kW     |
| COP Tj = -7°C                                       | 3.09        | 2.52        |
| Cdh Tj = -7 °C                                      | 0.970       | 0.980       |
| Pdh Tj = +2°C                                       | 3.01 kW     | 2.99 kW     |
| COP Tj = +2°C                                       | 4.84        | 3.77        |
| Cdh Tj = +2 °C                                      | 0.920       | 0.950       |
| Pdh Tj = +7°C                                       | 2.00 kW     | 1.98 kW     |
| COP Tj = +7°C                                       | 5.52        | 4.53        |
| Cdh Tj = +7 °C                                      | 0.900       | 0.910       |
| Pdh Tj = 12°C                                       | 1.59 kW     | 1.54 kW     |
| COP Tj = 12°C                                       | 5.87        | 5.20        |
| Cdh Tj = +12 °C                                     | 0.900       | 0.900       |
| Pdh Tj = Tbiv                                       | 4.91 kW     | 5.47 kW     |
| COP Tj = Tbiv                                       | 3.09        | 2.33        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.00 kW     | 5.47 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.97        | 2.33        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.970       | 0.980       |
| WTOL                                                | 65 °C       | 65 °C       |
| Poff                                                | 8 W         | 8 W         |
| PTO                                                 | 50 W        | 38 W        |
| PSB                                                 | 34 W        | 34 W        |
| PCK                                                 | 8 W         | 8 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.60 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2571 kWh    | 3156 kWh    |

## Model S735-7 R 3x230V

|                                     |                          |
|-------------------------------------|--------------------------|
| Model name                          | S735-7 R 3x230V          |
| Application                         | Heating + DHW + low temp |
| Units                               | Indoor                   |
| Climate zone (for heating)          | n/a                      |
| Cooling mode application (optional) | n/a                      |
| Any additional heat sources         | n/a                      |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 3x230V 50Hz |
| Off-peak product | No          |

## Exhaust Air/Water

### EN 16147 | Average Climate

|                                 |            |
|---------------------------------|------------|
| Declared load profile           | XL         |
| Efficiency $\eta_{DHW}$         | 117 %      |
| COP                             | 2.76       |
| Heating up time                 | 2:43 h:min |
| Standby power input             | 77.0 W     |
| Reference hot water temperature | 49.0 °C    |
| Mixed water at 40°C             | 215 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 | 3.44 kW         | 4.38 kW            |
| El input    | 0.92 kW         | 1.60 kW            |
| COP         | 3.72            | 2.74               |

### EN 12102-1 | Average Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | dB(A)           | 44 dB(A)           |

### EN 14825 | Average Climate

|          | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| $\eta_s$ | 177 %           | 144 %              |
| Prated   | 5.60 kW         | 5.60 kW            |
| SCOP     | 4.50            | 3.67               |
| Tbiv     | -7 °C           | -10 °C             |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| TOL                                                 | -10 °C      | -10 °C      |
| Pdh Tj = -7°C                                       | 4.91 kW     | 4.91 kW     |
| COP Tj = -7°C                                       | 3.09        | 2.52        |
| Cdh Tj = -7 °C                                      | 0.970       | 0.980       |
| Pdh Tj = +2°C                                       | 3.01 kW     | 2.99 kW     |
| COP Tj = +2°C                                       | 4.84        | 3.77        |
| Cdh Tj = +2 °C                                      | 0.920       | 0.950       |
| Pdh Tj = +7°C                                       | 2.00 kW     | 1.98 kW     |
| COP Tj = +7°C                                       | 5.52        | 4.53        |
| Cdh Tj = +7 °C                                      | 0.900       | 0.910       |
| Pdh Tj = 12°C                                       | 1.59 kW     | 1.54 kW     |
| COP Tj = 12°C                                       | 5.87        | 5.20        |
| Cdh Tj = +12 °C                                     | 0.900       | 0.900       |
| Pdh Tj = Tbiv                                       | 4.91 kW     | 5.47 kW     |
| COP Tj = Tbiv                                       | 3.09        | 2.33        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.00 kW     | 5.47 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.97        | 2.33        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.970       | 0.980       |
| WTOL                                                | 65 °C       | 65 °C       |
| Poff                                                | 8 W         | 8 W         |
| PTO                                                 | 50 W        | 38 W        |
| PSB                                                 | 34 W        | 34 W        |
| PCK                                                 | 8 W         | 8 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.60 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2571 kWh    | 3156 kWh    |