

EHSX-E  
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EHSXB-E  
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Electrical specifications of the backup heaters and booster heaters

| Backup heater     | Type                              |                                                                                                                                                                                                  |  | EKECBU*3V |         |     | EKECBU*6V |          |       |                                     | EKECBU*9W |          |       |                                         |    |  |
|-------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|---------|-----|-----------|----------|-------|-------------------------------------|-----------|----------|-------|-----------------------------------------|----|--|
|                   | Capacity setting                  |                                                                                                                                                                                                  |  | [kW]      | 1       | 1-2 | 1-2-3     | 2 - 4    | 2 - 6 | -2-4- (in case of emergency: -2-6-) |           | 3 - 6    | 3 - 9 | -3 - 6- (in case of emergency: -3 - 9-) |    |  |
|                   | Capacity stage -1-                |                                                                                                                                                                                                  |  |           | (4)     |     |           | 2        | 2     | 2                                   | 2         | 2        | 2     | 2                                       | 2  |  |
|                   | Capacity stage -1'                |                                                                                                                                                                                                  |  | kW        |         |     |           | 2        | 2     | 2                                   | 2         | 3        | 3     | 3                                       | 3  |  |
|                   | Capacity stage -2-                |                                                                                                                                                                                                  |  | kW        |         |     |           | 4        | 6     | 4                                   | 6         | 6        | 9     | 6                                       | 9  |  |
|                   |                                   |                                                                                                                                                                                                  |  |           |         |     |           |          |       |                                     |           |          |       |                                         |    |  |
|                   | Minimum time delay between stages |                                                                                                                                                                                                  |  |           | -       |     |           | Note -5- |       |                                     |           | Note -5- |       |                                         |    |  |
|                   | Power supply (1)                  | Phase                                                                                                                                                                                            |  |           |         |     |           | 1~       |       |                                     |           | 3~       |       |                                         |    |  |
|                   |                                   | Frequency                                                                                                                                                                                        |  |           | Hz      |     |           |          | 50    |                                     |           |          |       |                                         |    |  |
|                   |                                   |                                                                                                                                                                                                  |  |           | Voltage | V   |           |          |       | 230 +-10%                           |           |          |       | 400 +-10%                               |    |  |
| Current           | Nominal running current           |                                                                                                                                                                                                  |  | A         | 4.4     | 8.7 | 13.1      | 17,4     | 26,1  | 17,4                                | 26,1      | 8,7      | 13    | 8,7                                     | 13 |  |
|                   | Zmax (backup heater) (2)          |                                                                                                                                                                                                  |  | Ω         | -       |     |           |          |       |                                     |           | -        |       |                                         |    |  |
|                   |                                   |                                                                                                                                                                                                  |  | Complex   | -       |     |           | 0.22     |       |                                     |           | -        |       |                                         |    |  |
| Minimum Ssc value |                                   |                                                                                                                                                                                                  |  | kVA       | -       |     |           | (3)      |       |                                     |           | -        |       |                                         |    |  |
|                   |                                   |                                                                                                                                                                                                  |  |           |         |     |           |          |       |                                     |           |          |       |                                         |    |  |
| Notes             | (1)                               | The above-mentioned power supply of the hydrobox is for the backup heater only.<br>The optional domestic hot water tank has a separate power supply.                                             |  |           |         |     |           |          |       |                                     |           |          |       |                                         |    |  |
|                   | (2)                               | In accordance with EN/IEC 61000-3-11, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Zsys ≤ Zmax.              |  |           |         |     |           |          |       |                                     |           |          |       |                                         |    |  |
|                   | (3)                               | The equipment complies with EN/IEC 61000-3-12.                                                                                                                                                   |  |           |         |     |           |          |       |                                     |           |          |       |                                         |    |  |
|                   | (4)                               | For the 3V model, the system variably choses from 3 available capacity steps the adequate capacity for the given operating conditions.                                                           |  |           |         |     |           |          |       |                                     |           |          |       |                                         |    |  |
|                   | EN/IEC 61000-3-11                 | European/International Technical Standard setting the limits for voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated current ≤ 75 A. |  |           |         |     |           |          |       |                                     |           |          |       |                                         |    |  |
|                   | EN/IEC 61000-3-12                 | European/International Technical Standard setting the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase. |  |           |         |     |           |          |       |                                     |           |          |       |                                         |    |  |
| Zsys              | System impedance                  |                                                                                                                                                                                                  |  |           |         |     |           |          |       |                                     |           |          |       |                                         |    |  |

