



# **Quantum LB4**

## Technical data



### Addendum

QAD EN 2536-B  
D100003

# 1 Q65 – Q96LB4

| SPECIFICATION   |                   | Q65                         | Q81                         | Q96                         |
|---|-------------------|-----------------------------|-----------------------------|-----------------------------|
| <b>Heating capacity according to EN14511</b>                      |                   |                             |                             |                             |
| Heating capacity A7/W35   | kW                | 57.6                        | 66.8                        | 80.0                        |
| Heating capacity A7/W45   | kW                | 57.2                        | 67.6                        | 81.0                        |
| Heating capacity A2/W45   | kW                | 50.4                        | 59.4                        | 71.2                        |
| Heating capacity A-5/W65  | kW                | 46.6                        | 55.2                        | 66.2                        |
| Heating capacity A-7/W35  | kW                | 41.3                        | 48.4                        | 58.0                        |
| COP A7/W35  |                   | 4.6                         | 4.5                         | 4.4                         |
| COP A7/W45  |                   | 3.9                         | 3.9                         | 3.8                         |
| <b>SCOP according to EN14825</b>                                  |                   |                             |                             |                             |
| SCOP average climate, 35°C/55°C                                   |                   | 5.19/4.29                   | 5.08/4.22                   | -                           |
| SCOP colder climate, 35°C/55°C                                    |                   | 4.69/3.96                   | 4.63/3.92                   | -                           |
| <b>Energy efficiency class</b>                                    |                   |                             |                             |                             |
| Energy efficiency class, space heating, 35°C/55°C                 |                   | A+++ / A+++                 | A+++ / A+++                 | -                           |
| <b>Condenser</b>  |                   |                             |                             |                             |
| Condenser flow rate ( $\Delta T=7K$ at A7/W45)                    | l/s               | 1.96                        | 2.32                        | 2.78                        |
| Pressure drop condenser including defrosting plate heat exchanger | kPa               | 52.0                        | 54.0                        | 53.0                        |
| Max operating pressure  |                   | PN10                        | PN10                        | PN10                        |
| Max operating temperature   | °C                | 65.0                        | 65.0                        | 65.0                        |
| Min outdoor temperature at +65 °C flow temperature                | °C                | -20                         | -20                         | -20                         |
| Connection size condenser   | mm                | DN50                        | DN50                        | DN50                        |
| <b>Evaporator</b>   |                   |                             |                             |                             |
| Evaporator flow rate ( $\Delta T=4K$ at A7/W45)                   | l/s               | 3.13                        | 3.70                        | 4.40                        |
| Pressure drop evaporator  | kPa               | 30.0                        | 30.0                        | 32.0                        |
| Max operating pressure  |                   | PN10                        | PN10                        | PN10                        |
| Connection size evaporator  | mm                | DN50                        | DN50                        | DN50                        |
| <b>Product dimensions</b>   |                   |                             |                             |                             |
| Weight  | kg                | 396                         | 396                         | 423                         |
| Length  | mm                | 1464                        | 1464                        | 1464                        |
| Width   | mm                | 640                         | 640                         | 640                         |
| Height <sup>1</sup>   | mm                | 1368                        | 1368                        | 1368                        |
| <b>Fan unit dimensions</b>  |                   |                             |                             |                             |
| Weight  | kg                | 419                         | 419                         | 545                         |
| Length ( $\pm 15$ mm)   | mm                | 4105                        | 4105                        | 5954                        |
| Width ( $\pm 15$ mm)  | mm                | 1541                        | 1541                        | 1541                        |
| Height ( $\pm 15$ mm)   | mm                | 1342                        | 1342                        | 1342                        |
| Recommended pipe size between IDU & ODU                           | mm                | DN65                        | DN80                        | DN80                        |
| Connections fan unit  | mm                | Threaded connection, Cu54.0 | Threaded connection, Cu54.0 | Threaded connection, Cu54.0 |
| <b>Compressor</b> Fully hermetic scroll                           |                   |                             |                             |                             |
| No. compressors / No. refrigerant circuits                        | pcs/pcs           | 2/1                         | 2/1                         | 2/1                         |
| <b>Refrigerant (GWP)</b> R407C (1774)                             |                   |                             |                             |                             |
| Amount of refrigerant / CO <sub>2</sub> (e)                       | kg/tons           | 8.9/14.45                   | 9.5/15.43                   | 9.9/16.08                   |
| <b>Fan unit</b>   |                   |                             |                             |                             |
| No. fans  | pcs               | 2                           | 2                           | 3                           |
| Air volume  | m <sup>3</sup> /s | 6.89                        | 6.89                        | 9.9                         |
| Fan unit brine volume   | liters            | 66.9                        | 66.9                        | 74.0                        |
| Pressure drop fan unit  | kPa               | 42.0                        | 41.0                        | 42.0                        |
| <b>Sound levels compressor unit</b>                               |                   |                             |                             |                             |
| Sound pressure level, measured at 1 m distance                    | dB(A)             | 50                          | 50                          | 50                          |
| <b>Sound levels fan unit</b>                                      |                   |                             |                             |                             |
| Sound pressure level 10 m EN13487                                 | dB(A)             | 35                          | 35                          | 36                          |
| <b>Power supply</b>   |                   |                             |                             |                             |
| Nominal voltage   | V-ph-Hz           | 400-3-50                    | 400-3-50                    | 400-3-50                    |
| Nominal voltage fans  | V-ph-Hz           | 230-1-50                    | 230-1-50                    | 230-1-50                    |
| <b>Electric consumption (including fan unit)</b>                  |                   |                             |                             |                             |
| Maximum electric consumption                                      | A                 | 41.5                        | 50.5                        | 59.9                        |
| Maximum starting current (compressors only)                       | A                 | 68.6                        | 83.0                        | 99.4                        |
| Recommended fuse  | A                 | 50                          | 63                          | 80                          |

<sup>1</sup> Height without pipe connections and feet.

## 2 Q123 – Q192LB4

| SPECIFICATION   |                   | Q123                     | Q144                     | Q162                     | Q192                     |
|---|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <b>Heating capacity according to EN14511</b>                      |                   |                          |                          |                          |                          |
| Heating capacity A7/W35   | kW                | 100.2                    | 120.0                    | 133.6                    | 160.0                    |
| Heating capacity A7/W45   | kW                | 101.4                    | 121.5                    | 135.2                    | 162.0                    |
| Heating capacity A2/W45   | kW                | 89.1                     | 106.8                    | 118.8                    | 142.4                    |
| Heating capacity A-5/W65  | kW                | 82.8                     | 99.3                     | 110.4                    | 132.4                    |
| Heating capacity A-7/W35  | kW                | 72.6                     | 87.0                     | 96.8                     | 116.0                    |
| COP A7/W35  |                   | 4.5                      | 4.4                      | 4.5                      | 4.4                      |
| COP A7/W45  |                   | 3.9                      | 3.8                      | 3.9                      | 3.8                      |
| <b>SCOP according to EN14825</b>                                  |                   |                          |                          |                          |                          |
| SCOP average climate, 35°C/55°C                                   |                   | -                        | -                        | -                        | -                        |
| SCOP colder climate, 35°C/55°C                                    |                   | -                        | -                        | -                        | -                        |
| <b>Energy efficiency class</b>                                    |                   |                          |                          |                          |                          |
| Energy efficiency class, space heating, 35°C/55°C                 |                   | -                        | -                        | -                        | -                        |
| <b>Condenser</b>  |                   |                          |                          |                          |                          |
| Condenser flow rate ( $\Delta T=7K$ at A7/W45)                    | l/s               | 3.48                     | 4.16                     | 4.63                     | 5.55                     |
| Pressure drop condenser including defrosting plate heat exchanger | kPa               | 50.0                     | 50.0                     | 53.0                     | 58.0                     |
| Max operating pressure  |                   | PN10                     | PN10                     | PN10                     | PN10                     |
| Max operating temperature   | °C                | 65.0                     | 65.0                     | 65.0                     | 65.0                     |
| Min outdoor temperature at +65 °C flow temperature                | °C                | -20                      | -20                      | -20                      | -20                      |
| Connection size condenser   | mm                | DN50                     | DN50                     | DN65                     | DN65                     |
| <b>Evaporator</b>   |                   |                          |                          |                          |                          |
| Evaporator flow rate ( $\Delta T=4K$ at A7/W45)                   | l/s               | 5.56                     | 6.60                     | 7.41                     | 8.80                     |
| Pressure drop evaporator  | kPa               | 30.0                     | 32.0                     | 42.0                     | 54.0                     |
| Max operating pressure  |                   | PN10                     | PN10                     | PN10                     | PN10                     |
| Connection size evaporator  | mm                | DN65                     | DN65                     | DN65                     | DN65                     |
| <b>Product dimensions</b>   |                   |                          |                          |                          |                          |
| Weight  | kg                | 522                      | 522                      | 775                      | 775                      |
| Length  | mm                | 1464                     | 1464                     | 2070                     | 2070                     |
| Width   | mm                | 640                      | 640                      | 640                      | 640                      |
| Height <sup>1</sup>   | mm                | 1368                     | 1368                     | 1387                     | 1387                     |
| <b>Fan unit dimensions</b>  |                   |                          |                          |                          |                          |
| Weight  | kg                | 667                      | 730                      | 995                      | 1098                     |
| Length ( $\pm 15$ mm)   | mm                | 4133                     | 4749                     | 5982                     | 5982                     |
| Width ( $\pm 15$ mm)  | mm                | 2343                     | 2343                     | 2343                     | 2343                     |
| Height ( $\pm 15$ mm)   | mm                | 1534                     | 1534                     | 1534                     | 1534                     |
| Recommended pipe size between IDU & ODU                           | mm                | DN100                    | DN100                    | DN100                    | DN100                    |
| Connections fan unit  | mm                | Flanged connection, DN65 | Flanged connection, DN65 | Flanged connection, DN65 | Flanged connection, DN65 |
| <b>Compressor</b> Fully hermetic scroll                           |                   |                          |                          |                          |                          |
| No. compressors / No. refrigerant circuits                        | pcs/pcs           | 3/1                      | 3/1                      | 4/2                      | 4/2                      |
| <b>Refrigerant (GWP)</b> R407C (1774)                             |                   |                          |                          |                          |                          |
| Amount of refrigerant / CO <sub>2</sub> (e)                       | kg/tons           | 12.2/21.64               | 13.0/23.06               | 2x7.9/28.03              | 2x8.3/29.45              |
| <b>Fan unit</b>   |                   |                          |                          |                          |                          |
| No. fans  | pcs               | 4                        | 4                        | 6                        | 6                        |
| Air volume  | m <sup>3</sup> /s | 13.18                    | 13.42                    | 18.8                     | 18.45                    |
| Fan unit brine volume   | liters            | 184.7                    | 210.9                    | 193.0                    | 227.5                    |
| Pressure drop fan unit  | kPa               | 40.0                     | 43.0                     | 47.0                     | 55.0                     |
| <b>Sound levels compressor unit</b>                               |                   |                          |                          |                          |                          |
| Sound pressure level, measured at 1 m distance                    | dB(A)             | 51                       | 51                       | 53                       | 53                       |
| <b>Sound levels fan unit</b>                                      |                   |                          |                          |                          |                          |
| Sound pressure level 10 m EN13487                                 | dB(A)             | 37                       | 37                       | 37                       | 37                       |
| <b>Power supply</b>   |                   |                          |                          |                          |                          |
| Nominal voltage   | V-ph-Hz           | 400-3-50                 | 400-3-50                 | 400-3-50                 | 400-3-50                 |
| Nominal voltage fans  | V-ph-Hz           | 230-1-50                 | 230-1-50                 | 230-1-50                 | 230-1-50                 |
| <b>Electric consumption (including fan unit)</b>                  |                   |                          |                          |                          |                          |
| Maximum electric consumption                                      | A                 | 76.5                     | 90.6                     | 100.9                    | 119.7                    |
| Maximum starting current (compressors only)                       | A                 | 106.7                    | 127.8                    | 130.4                    | 156.2                    |

| SPECIFICATION |  | Q123 | Q144 | Q162 | Q192 |
|---------------|--|------|------|------|------|
|---------------|--|------|------|------|------|

|                  |   |     |     |     |      |
|------------------|---|-----|-----|-----|------|
| Recommended fuse | A | 125 | 125 | 125 | 2x80 |
|------------------|---|-----|-----|-----|------|

<sup>1</sup> Height without pipe connections and feet.







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Ji-te gatan 7, 265 38 Åstorp – Sweden | [quantum.com](http://quantum.com)



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