

## DF100

### Technical Specification DF100

|                                       | DF100 - 2m <sup>2</sup>                | DF100 - 3m <sup>2</sup>                |
|---------------------------------------|--|--|
| <b>Dimensions</b>                     |  |  |
| Absorber Area                         | 2m <sup>2</sup>                        | 3m <sup>2</sup>                        |
| Overall Dimensions                    | 1996 x 1418 x 97mm                     | 1996 x 2127 x 97mm                     |
| Width of Manifold                     | 1418mm                                 | 2127mm                                 |
| Length (Tube and Manifold)            | 1996mm                                 | 1996mm                                 |
| Depth                                 | 97mm                                   | 97mm                                   |
| Fluid Volume (In Manifold)            | 3.8l                                   | 5.6l                                   |
| Inlet and Outlet Dimensions           | 22mm                                   | 22mm                                   |
| Weight                                | 54.8kg                                 | 81.4kg                                 |
| <b>Mounting</b>                       |  |  |
| Recommended Inclination               | 0-90°                                  | 0-90°                                  |
| <b>Operating Data</b>                 |  |  |
| Efficiency                            | Based on Absorber                      | Based on Absorber                      |
| eta 0                                 | 0.83                                   | 0.832                                  |
| k1                                    | 1.53 W/m <sup>2</sup> K                | 1.14 W/m <sup>2</sup> K                |
| k2                                    | 0.0063 W/m <sup>2</sup> K <sup>2</sup> | 0.0144 W/m <sup>2</sup> K <sup>2</sup> |
| Test Report                           | BLG 10606                              | BLG 10706                              |
| Flow Rate                             |  |  |
| Rated                                 | 160l/h                                 | 240l/h                                 |
| Minimum                               | 120l/h                                 | 180l/h                                 |
| Maximum                               | 300l/h                                 | 480l/h                                 |
| Maximum Operating Pressure            | 8 Bar                                  | 8 Bar                                  |
| Stagnation Temperature                | 286°C                                  | 286°C                                  |
| Heat Transfer Fluid                   | Water/Glycol                           | Water/Glycol                           |
| <b>Materials</b>                      |  |  |
| Absorber                              | Copper                                 | Copper                                 |
| Coating                               | Selective Coating                      | Selective Coating                      |
| Absorbance                            | 95%                                    | 95%                                    |
| Emissivity                            | 5%                                     | 5%                                     |
| Mounting Frame and Clips              | Stainless Steel, Aluminium EPDM        | Stainless Steel, Aluminium EPDM        |
| Glass                                 | Low Iron - Transm. 0.92                | Low Iron - Transm. 0.92                |
| Vacuum                                | Higher than 10 <sup>-8</sup> Bar       | Higher than 10 <sup>-8</sup> Bar       |
| Quality Certification / Solar Keymark | Yes                                    | Yes                                    |