



# CIAT - AQUACIAT Caleo Air-to-water heat pump

## AQUACIAT Caleo Air-to-water heat pump

### Features

- Water outlet temperature 65 °C at -12 °C.
- Winter operation (-20 °C).
- High energy efficiency (COP).
- Compact and quiet.
- Scroll compressors.
- Self-adjusting electronic control.



### Technical Data

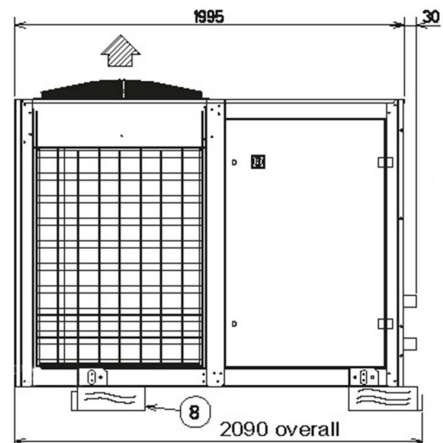
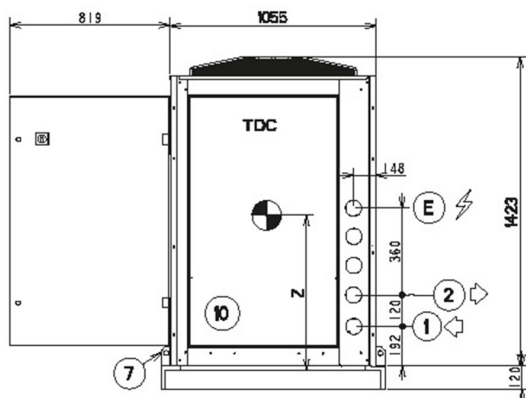
| AQUACIAT Caleo                          |                   | 80Z                | 100Z               | 120Z               | 150Z               |
|-----------------------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| Net heating capacity*                   | kW                | 24.8               | 34.7               | 40.8               | 47.3               |
| COP*/SCOP                               |                   | 3.63/2.97          | 3.75/2.32          | 3.92/3.31          | 3.83/3.34          |
| P-rated/Energy class                    | kW                | 14.5/A             | 19.6/A+            | 24.1/A+            | 28.4/A+            |
| Heating capacity**                      | kW                | 25.9               | 34.7               | 43.1               | 48.7               |
| COP**/SCOP                              |                   | 2.63/2.57          | 2.62/2.77          | 2.71/2.82          | 2.81/2.83          |
| P-rated/Energy class                    | kW                | 14.8/A+            | 20.9/A+            | 25.7/A+            | 30.1/A+            |
| Refrigerant charge (R407C)              | kg                | 7.2                | 11.5               | 18.0               | 18.0               |
| Expansion tank capacity                 | l                 | 18                 | 18                 | 18                 | 18                 |
| Minimum system water volume             | l                 | 227                | 319                | 374                | 434                |
| Max. system capacity***                 | l                 |                    |                    |                    |                    |
| - pure water at 65 °C/90 °C             |                   | 450/250            | 450/250            | 450/250            | 450/250            |
| - 40% glycol/water mix at 65 °C/90 °C   |                   | 275/185            | 275/185            | 275/185            | 275/185            |
| No. of fan speeds/available pressure    | kPa               | 1/145              | 1/115              | 1/140              | 1/135              |
| Minimum/maximum water flow rate         | m <sup>3</sup> /h | 3.2/7.6            | 3.9/8.5            | 4.4/12.2           | 4.9/13.0           |
| Operating limits (winter/summer)        | °C                | -20/45             | -20/45             | -20/45             | -20/45             |
| Maximum leaving water temperature       | °C                | 65                 | 65                 | 65                 | 65                 |
| Sound pressure level (high temperature) | dB(A)             | 77                 | 77                 | 77                 | 77                 |
| System current                          | A                 | 22.2               | 27.1               | 31.0               | 36.3               |
| Starting current (with SoftStart)       | A                 | 99 (59)            | 127 (76)           | 167 (100)          | 198 (119)          |
| Weight                                  | kg                | 417                | 483                | 503                | 519                |
| Dimensions W x D x H                    | mm                | 1995 x 1055 x 1423 | 1995 x 1055 x 1423 | 1995 x 1055 x 1423 | 1995 x 1055 x 1423 |
| Part Number                             |                   | 7223410            | 7223409            | 7223408            | 7223406            |

\* Heating capacities in high performance version at the unit outlet, based on hot water outlet at 35 °C and outside air 7 °C DB 86% RH.

\*\* Heating capacities in high performance version at the unit outlet, based on hot water outlet at 45 °C and outside air 7 °C DB 86% RH.

\*\*\* For temperatures outside of this, an additional expansion tank is required.

### Dimensional Drawings



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## Accessories

| Description                                                                                   | Part Number           |
|-----------------------------------------------------------------------------------------------|-----------------------|
| 1-1/2" flexible customer kit                                                                  | 7187605               |
| SoftStart kit                                                                                 | 7272062               |
| Phase monitor kit (reversal, loss, over- and undervoltage)                                    | 7081668               |
| 1-1/2" filling kit*                                                                           | 7111810               |
| Electrical auxiliary unit by 9 kW loop heater supplied separately                             | 7148642               |
| Electrical auxiliary unit by 15 kW loop heater supplied separately                            | 7272405               |
| Hydraulic control kit (pressure gauges, control & shut-off valve)                             | 3911008               |
| 200 litre 8-nozzle mixing tank                                                                | 7328747               |
| 400 litre 8-nozzle mixing tank                                                                | 7328748               |
| 9 kW electrical auxiliary kit to be integrated into the 200 or 400 litre 8-nozzle mixing tank | 7221389               |
| Pool heating kit with motorised 3-way valves                                                  | 7111122               |
| DHW heating kit (2 x 300 litre tanks in parallel) and motorised 3-way valves                  | 2 x 7385910 + 7411357 |
| Safety hot water thermostat kit (60°C)                                                        | 7101578               |
| Frost protection                                                                              | 7090373               |

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