



The new improved Calibra Eco Cool

– replacing the successful Calibra Cool –

With the continuous drive towards more sustainable & efficient solutions:

The new Calibra Eco Cool is combining the best parts from the two successful products Calibra Cool and Calibra Eco in to the new **Calibra Eco Cool** that will replace Calibra Cool in 2024.

Wider product range, now covering 2-12 kW with 3 models:

- **Calibra Eco Cool 8 400V BW** - normal Brine /Water version
 - Replacing Calibra Cool 7 400V BW & BW-i
- **Calibra Eco Cool 12 400V BW-** larger heating capacity version
 - New model based on Calibra Eco 12- with inbuilt passive cooling.
- **Calibra Eco Cool 8 400V WW** - Special version developed for e.g. "ATES" systems, primarily used in NL. Not suitable for standard brine applications.
 - Replacing Calibra Cool 7 400V WW



Combining the best available technology

Keeping all the benefits from the successful Calibra Cool and refining it one step further to Calibra Eco Cool by e.g.

- **Climate smart technology with R452B refrigerant**
 - Reducing the CO2 equivalent by ~68% from Calibra Cool
- **Even better performance**
 - Further improved Heating SCOP
 - Further improved Hot water COP
 - Ultra efficient inbuilt passive cooling, low weight & very quiet

-As before, only even better-

Tailor made for its application

From factory the Calibra Eco Cool is tailor made as a perfect fit for the typical floor heating / cooling applications where it is usually installed. It also includes some special functionality tailored for these applications, just as the Calibra Cool.

Even if the most common installation is floor cooling, it's also useful where the same system is used for both heating & cooling. But in these cases, an additional switching valve needs to be installed and condense insulation may be required, see installation manual. (The extra condense insulated "BW-i" model is replaced by normal BW model). Note that the new product, just as Calibra Cool, cannot provide heating & cooling at the same time as the outlet for heating/cooling are common.

Even better than the previous champion, Calibra Cool 7

Comparison		Calibra Eco Cool	Calibra Cool	Competitor
SCOP (0/35) _{cold}		5,87	5,77	5,5
SCOP (0/35) _{avg}		5,57	5,56	5,2
Sound level	dB(A)	30-42	28-42	36-43
Refrigerant	kg/CO ₂ eq	0,9/0,628	0,95/1,984	1,16/2,06
Weight	kg	157	157	188
40°C warm water	l/COP	260/3,14	260/2,7	245/2,6

Extra functionality vs Calibra Eco (Same as in Calibra Cool)

Calibra Eco Cool includes, just like Calibra Cool, some additional optional application specific functionality:

Start signal Cooling (BM, D24):

The unit can be forced to go in to cooling season / cooling mode by closing the start signal cooling.

Cooling mode (output signal) (BM, R1)

When the heat pump is in cooling mode, the relay will be closed (and remain so during hot water production). Useable e.g. as control signal to e.g. individual room control systems.

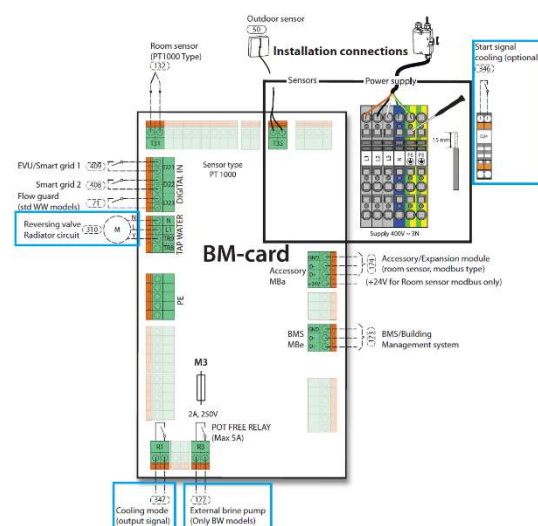
Room sensor-controlled cooling (requires room sensor accessory PT1000 or Modbus):

With room sensor installed (accessory), the cooling will only start in cooling season if the room temperature exceeds the set value for desired room temperature + set offset.

External brine pump signal (BM, R3)

Standard on BW models

Please note that neither buffer tank nor Active cooling is supported by Calibra Eco Cool.



Accessories:

Calibra Eco Cool supports the same functionality and accessories as the Calibra Cool:

086L3937 ROOMSENSOR WITH DISPLAY (Modbus type)

086L5875 ROOM SENSOR PT1000 WITHOUT DISPLAY

086L4535 POWER LIMITER

086L6340 EXTENSION SOCKET

086L5983 EXPANSIONSMODULE EM3 DOMESTIC (EM3 is required for the same applications as Calibra. Note that Calibra Eco Cool does not support Active cooling or Buffer tank heating.)

086L5766 CONNECTOR KIT (to combine with MBH Calibra)

086L2260 HOT WATER CIRCULATION KIT (pipe kit)

351857 BRINE PIPE KIT (for top mounted brine)

Documentation

Installation and user guide will be made available before delivery on partner login and documents.thermia.com/documents. Additional documentation such as wiring diagrams and technical description will be made available on the web only.

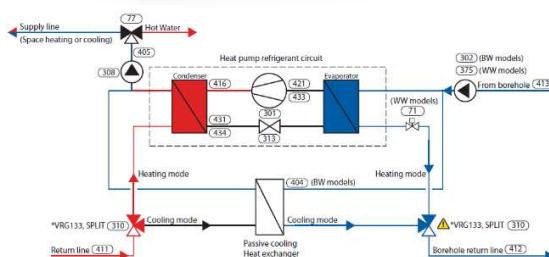
After market

In the refrigerant circuit it shares components with the Calibra Eco product. Main difference for aftermarket in other aspects is that the 3-way valve on brine side now is end ported just as on the supply side, and that the assembly is simplified due to pre-configured guide pins between new version of actuator & valve ("split") see picture below. Calibra Eco Cool will require SW 15.00.

Calibra Cool



Calibra Eco Cool



Product information

No: 2023_14

Date: 2023-11-28



Launch & delivery information Thermia Export

2023 NOVEMBER 28

- First start of order for selected markets (Thermia Export)
- Product presented on Thermia.com
- Last order date Calibra Cool (Thermia Export) 28 NOV 2023

2023 DECEMBER

- Last production month of Calibra Cool
- 2024 years orders will be swapped from Calibra Cool to Calibra Eco Cool

2024 from JANUARY 9 and forward

- Planned delivery start Calibra Eco Cool

Product phasing out		New arrivals / replacing product	
203151	Calibra Cool 7 400V BW	206943	Calibra Eco Cool 8 400V BW
203166	Calibra Cool 7 400V WW	206945	Calibra Eco Cool 8 400V WW
204025	Calibra Cool 7 400V BW-i		(Calibra Eco Cool 8 400V BW)
N/A	N/A	206944	Calibra Eco Cool 12 400V BW