

► RMK87 Kapillar® Heat Cost Allocator

Brunata RMK87 Kapillar® is the only heat cost allocator of the capillary type which:

- is developed and produced in Denmark
- records no heat consumption on unused radiators (DS/EN 835 overfilling for 365 days)
- is a serious and fair alternative to electronic heat cost allocators
- is approved for low temperature systems ($t_{\min}=52,5\text{ }^{\circ}\text{C}$)
- contains an odourless liquid that cannot flow out of the ampoule
- is suitable for both vertical and horizontal mounting. Horizontal installation is important when mounted on convectors and horizontal pipes.
- shows present and last year's consumption



Accurate measurement of heat consumption

RMK87 Kapillar® is a heat cost allocator for recording the heat emitted from the radiators.

RMK87 Kapillar® operates on the evaporation principle. The heat from the radiator makes the ampoule liquid evaporate. The evaporation is proportional to the heat quantity emitted from the radiator. By measuring the evaporation the consumption can be decided.

RMK87 measures more precisely than most electronic heat cost allocators.

Patented capillary ampoule

Brunata has developed and holds the patent for the special capillary ampoule for the liquid applied in RMK 87 Kapillar®. The capillary ampoule is all crucial to unique accuracy of the allocator.

There is much less liquid in the super slim RMK87 capillary ampoule than in ampoules in traditional evaporators. It means that the liquid is heated and cooled very quickly. Hereby, the RMK87 Kapillar® becomes very sensitive.

The capillary ampoule is longer and slimmer than other liquid ampoules. It also contributes to the very precise reading of the allocator: The reading of a long scale can be much preciser than that of a short scale. The slim liquid column means that the liquid surface appears as a straight line; making a precise reading of the allocator much easier.

Also applicable for low temperature systems

Contrary to traditional heat cost allocators, the RMK87 Kapillar® is applicable for low temperature systems.

Other suppliers offer only very expensive electronic heat cost allocators for low temperature systems. But they are not very suitable, as they are developed for high temperature systems. Their recording range does not cover a significant part of the heat consumption which, therefore, is not recorded.

In buildings with additional insulation and in all new buildings most central heating systems are so-called "low temperature systems" i.e. central heating systems with a reduced inlet temperature. Ordinary central heating systems, in which the control equipment reduces the temperature during the summer period, operate as low temperature systems.

Brunata is a 100 % Danish owned company. We have more than 85 years experience within developing and producing heat cost allocators and heating accounts. Brunata has implemented a quality system in accordance with EN ISO 9001. Please contact us for further information on our products!

No recording of heat consumption on unused radiators

The liquid in evaporative heat cost allocators evaporates constantly, no matter whether the radiators are used or not. Therefore, the ampoules must have an overfilling of liquid, which corresponds exactly to one year's idle evaporation

RMK87 Kapillar® has an overfilling which corresponds to the idle evaporation, i.e. 365 days. That is why the allocator records no consumption of heat on unused radiators and only "real" consumption is part of the heating account.

Other evaporative heat cost allocators available are only overfilled with liquid corresponding to 120 days of idle evaporation (minimum requirement according to DS/EN 835). Thus, when a year has passed these allocators will always meter consumption – even if the radiators have not been used. This recording of false consumption is part of the heating account, which is a course of great annoyance to everybody resulting in customer complaints.

Secured against accidents

Owing to the capillary effect, the liquid cannot run out of the patented ampoule, if it should break or be turned upside down.

Technical data

Operating principle:

Kapillar® heat cost allocator, evaporation type

Standards:

EN 835 (the European Standard)

DS/EN 835 (the Danish Standard) for heat cost allocators of the evaporation type.

System designation TS 27.21 003

Application area:

Ordinary types of 1- and 2-piped heating systems, also "low temperature systems"

Application limit (dimensioning temperature):

Liquid	t _{min}	t _{max}
1-Hexanol	52,5 °C	88 °C
Cyclohexanol	52,5 °C	95 °C
Methylbenzoat	60 °C	120 °C

Type designations:

RMK 87 Kapillar® 40-0200-A Kapillar® heat cost allocator for mounting on radiator

RMKR 87 Kapillar® 40-0240-A Kapillar® heat cost allocator for mounting on spiral pipe coil

Scale:

Product scale or unit scale

Length 90 mm

Liquid:

Designation 1-Hexanol, Cyclohexanol, or Methylbenzoat

Quantity 0,3 cm³

Surface 3,10 mm²

Measures and weight:

135 x 38 x 15 mm, approx. 95 g (depending on rear plate)

Mounting:

Vertical or horizontal

Brunata makes reservations against errors and omissions in the specifications and reserves the right to alter above-mentioned without notice!