

**Danfoss**  
**RAVI Climate  
Solutions Design  
Center**



## Danfoss RAVI Climate Solutions Design Center Instructions

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**Danfoss**

**Danfoss RAVI Climate Solutions Design Center**



## Specifications

- **Model:** RAVI 013R9067
- **Material:** Brass sensor housing
- **Minimum Distance:** 5 mm between sensor housing and other metal parts

## Product Usage Instructions

### Installation:

Follow the steps below for proper installation:

1. Install sensor part as shown in Figure A with at least 5 mm distance from other metal parts.
2. Ensure adequate distance along the side length and end part of the sensor (refer to fig. A).
3. Properly fix the sensor by securing the larger dimension of the capillary tube with a stuffing box (using 2 washers with a rubber gasket in between, tightened with a screw) as shown in figure A.

### Optimal Arm Installation:

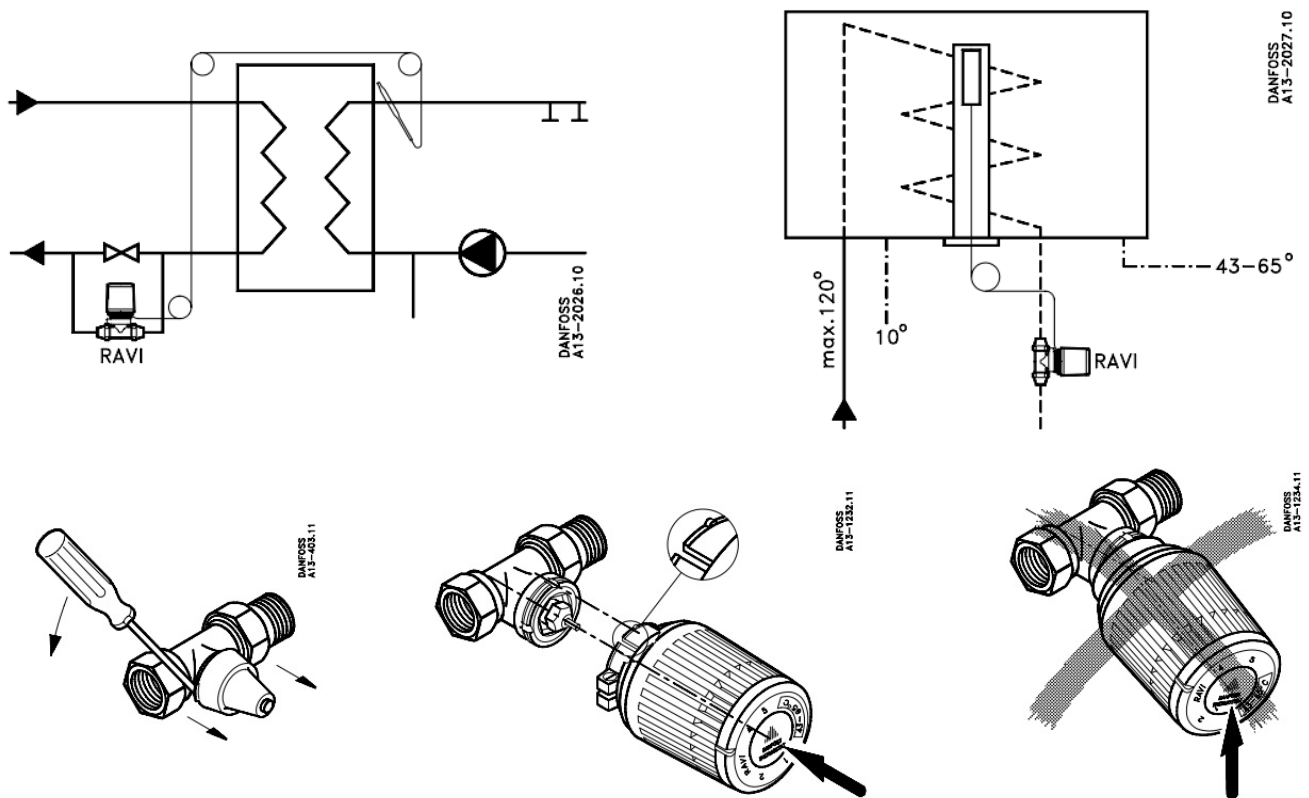
For optimal performance and to reduce the risk of vibrations, follow these guidelines:

- Install as shown in figure A to achieve the optimal arm (distance between stuffing box and end part of the sensor inserted in the media in heat exchanger or boiler).
- Avoid the installation configuration shown in Figure B (thinner diameter of capillary tube in stuffing box, longer arm, etc.).

### Protective Sleeve Usage:

If metal contact cannot be avoided and a protecting pocket is needed, use a stainless steel sleeve as shown in figure C. Note that this may result in a longer response time due to slower heat transition.

## Fitting/Montage



- Install sensor part as shown on figure A in order to assure at least 5 mm distance between sensor housing made of brass and other metal parts.
- Consider adequate distance over the whole side length and end part of the sensor (fig. A).
- Assure that sensor is properly fixed; larger dimension of capillary tube has to be fixed with stuffing box (2 washers with rubber gasket in between, tightened with screw), (fig. A).
- By installation shown on figure A you also assure the optimal arm (distance between stuffing box where sensor is fixed and end part of the sensors inserted in the media in heat exchanger or boiler) which will reduce the risk of vibrations which could cause a metal contact.
- Please avoid installation which is shown on figure B (thinner diameter of capillary tube fits in stuffing box, longer arm etc.).
- If you can not avoid or at least you assume the possibility of metal contact, than you have to use a protecting pocket (sleeve) made of stainless steel (figure C).
- By using this standard type of accessory you will be faced with longer response time of RAV's performance due to slower heat transition.

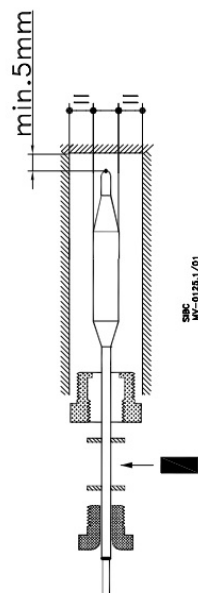
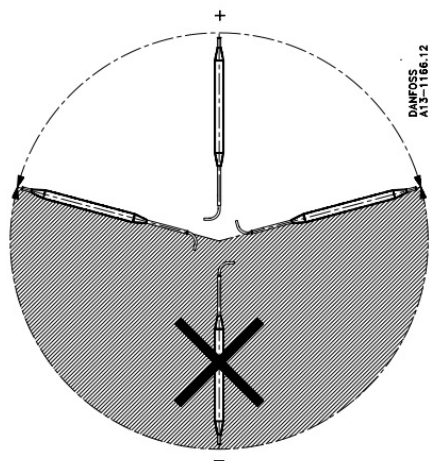


Fig. A

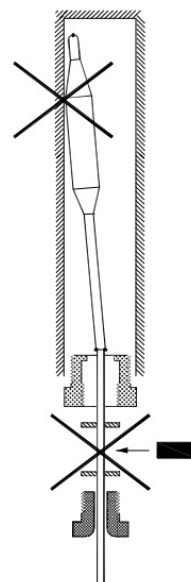


Fig. B

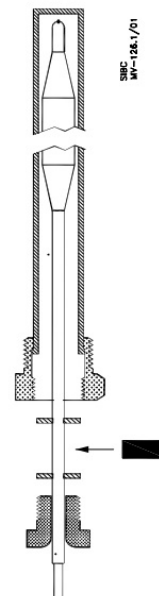
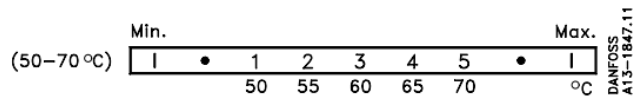
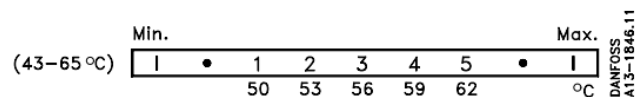
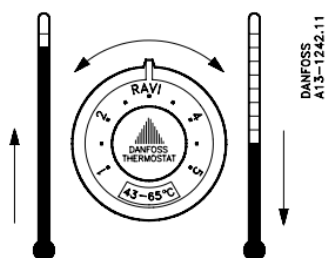
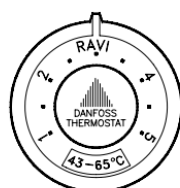
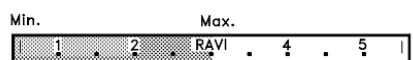
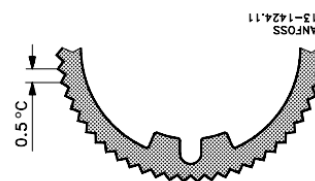
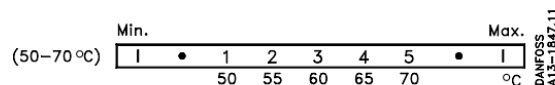
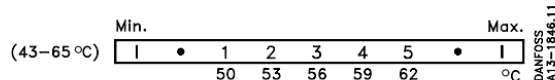


Fig. C

## Setting

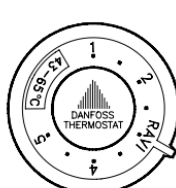


## Limiting or locking of setting range



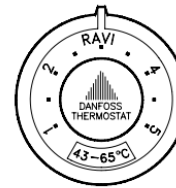
DANFOSS  
A13-1421.12

1a



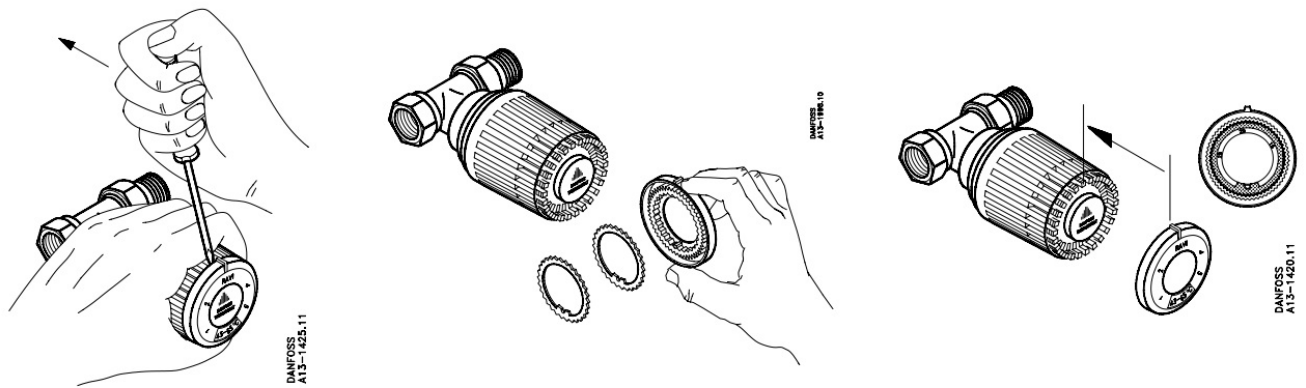
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2a

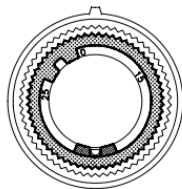


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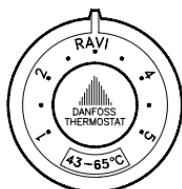
3a



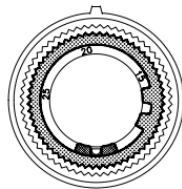
1b/2b/3b



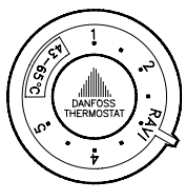
1c



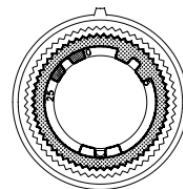
1d



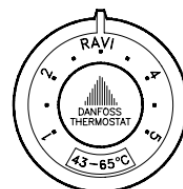
2c



2d



3c



3d

## FAQ

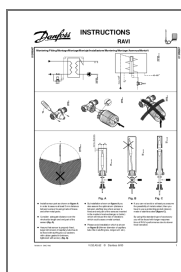
**Q: What should I do if I cannot maintain the recommended distance between the sensor housing and other metal parts?**

A: In such cases, use a protective pocket (sleeve) made of stainless steel as shown in Figure C to prevent metal contact.

**Q: What is the consequence of using a protective pocket on the product's performance?**

A: The use of a protective pocket may lead to a longer response time of the product's performance due to slower heat transition.

## Documents / Resources



[Danfoss RAVI Climate Solutions Design Center](#) [pdf] Instructions  
013R9067, 7369302-0, RAVI Climate Solutions Design Center, RAVI, Climate Solutions Design Center, Solutions Design Center, Design Center, Center

## References

- [User Manual](#)

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