



USER GUIDE

HMP9

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Installation Guide

HMP9 Duct Installation Kit ASM214055

Overview of HMP9 Duct Installation Kit

Duct Installation Kit (Vaisala item ASM214055) is designed to support the probe head of a HMP9 Humidity and Temperature Probe in installations to ducts and chambers. The kit is lightweight and can be installed with minimal tools.

The kit does not include an attachment for the probe body of HMP9. To mount the probe body, use the probe holder supplied with HMP9, or attach it directly to a compatible Indigo transmitter.

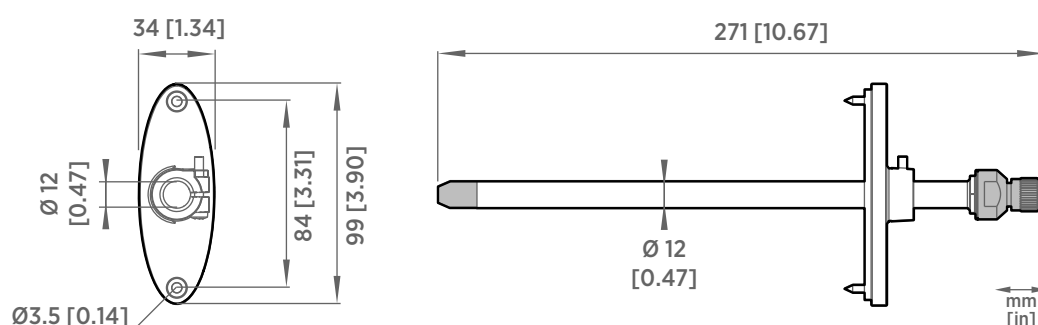


Figure 1 Duct Installation Kit ASM214055 dimensions

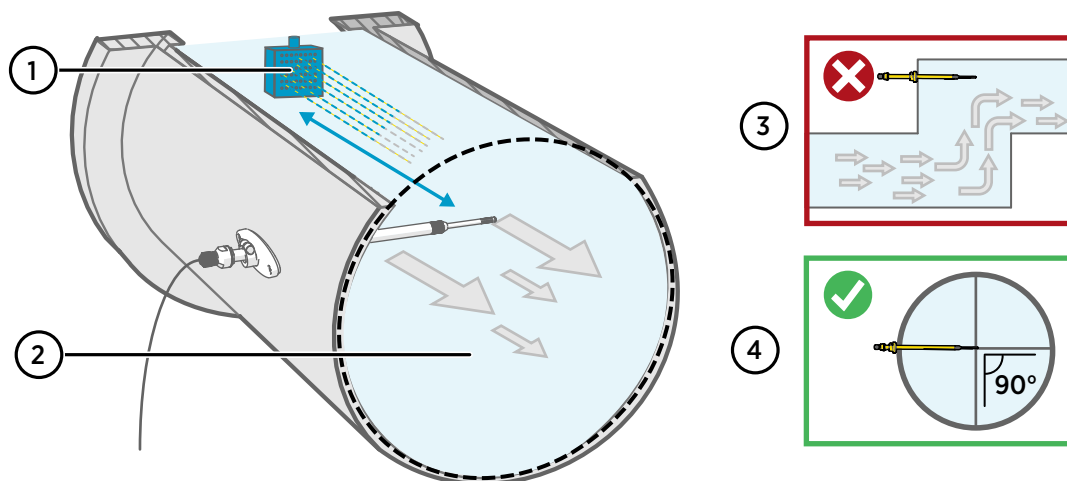


Figure 2 Duct installation overview

- 1 Make sure there is a minimum clearance of 5 m (16.5 ft) between the probe head and any possible humidifier. Avoid installing in a location where condensation can fall on the probe head inside the duct.
- 2 Maximum air flow speed: 50 m/s.
- 3 Avoid installing the probe in dead legs. Supersaturation can occur in areas where there is no air flow.
- 4 Install the probe head in a 90° angle to prevent condensation from travelling to the sensor along the mounting pipe. Position the sensor as close to the middle of the duct as possible.



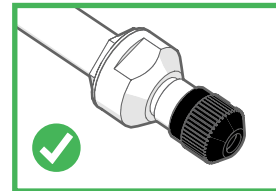
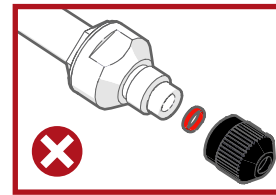
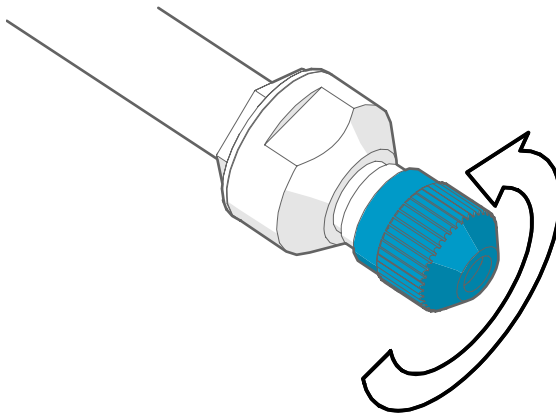
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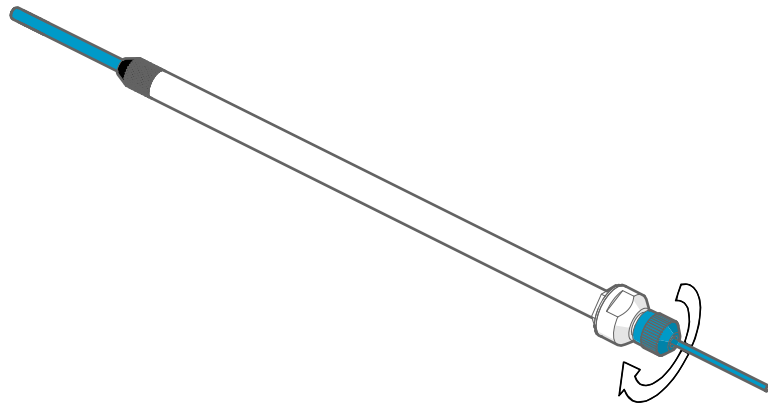
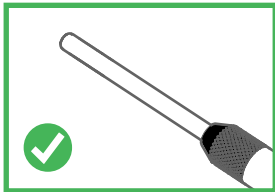
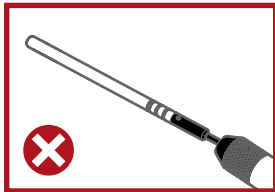
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Mounting HMP9 probe head with Duct Installation Kit

- 1. Loosen the sealing gland on the back of the pipe by turning it 1.5 full rotations. Do not detach the gland to avoid dislocating the sealing ring.



2. Push the probe head of HMP9 firmly through the sealing gland. Push the probe head further using its cable until it appears from the end of the tube. Adjust so that half of the metal probe head is visible, and tighten the sealing gland by hand so that it holds the probe cable in place.



3. Insert the mounting flange on the pipe. Make sure the black sealing surface faces the probe head.
4. Make a $\varnothing 14$ mm (0.55 in) hole in the duct or chamber wall.
5. Push the probe head and pipe into the duct or chamber, and attach the flange using the 2 screws. If necessary, use a drill to make starter holes for the screws (max . $\varnothing 2$ mm (0.07 in)).
6. Adjust the mounting depth of the probe so that the probe is in the middle of the duct, and tighten the holding screw on the flange to lock the pipe in place.

