

## REDUCE FOGGING IN INSTRUMENTS

The night air is heavy with moisture that will permeate everything that is not totally closed - under dashes and into compartments. That moisture will get into the gauge also as the gauge is not sealed from the rear.

Fogging, the gray colored mist on the inside of glass, similar to the moisture on a mirror during the morning shower, is caused by heating moist air that has gotten into the gauge.

Fogging in a gauge is influenced by the amount of humidity, temperature changes, air flow (or the lack of), and gauge placement in the boat, i.e.:

- When the humidity is high, such as tropical climates or summer heat waves.
- Moderate temperature differences inside to outside of the gauge glass, especially in an afternoon rain shower.
- If the gauges are mounted in an area that has no air flow at the back of the gauges. Air circulation is critical in drawing moist air out of the gauge and allowing dryer air to get into the gauge.

When the gauge is turned on the gauge's mechanism, as well as sun light through the glass, will cause heat. Hotter air on the inside of the glass than outside the glass can cause fog on the inside of the glass.

If the gauge is mounted with the face vertical, the fog goes to the top of the case with very little getting on the glass. If the gauge is tilted back, more of the glass can be fog covered.

Fogging is dissipated when the heat inside the gauge causes an air circulation to begin moving from the back of the gauge through its interior. This constant flow of air should slowly clear the glass.

Turning on the gauge light (causing more heat circulation) helps in clearing the glass.

Air flow to the rear of the gauge is important. If air flow behind the gauge is poor (area behind the dash may be sealed off), the chances of the gauge clearing will also be poor. See the diagrams to the right.

Changing out the gauge will not reduce the fogging if airflow behind the gauge is not improved.

*If fogging occurs, it will not damage gauge parts or performance.*

Veethree Pro Series gauge systems have a fog resistant glass that will reduce the instances and amount of fogging. However, large amounts of moisture in the gauge will cause "condensation" (water droplets) on the glass. This is beyond fogging. Even fog resistant glass can not handle this large amount of moisture.

