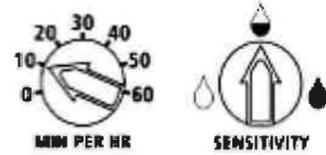
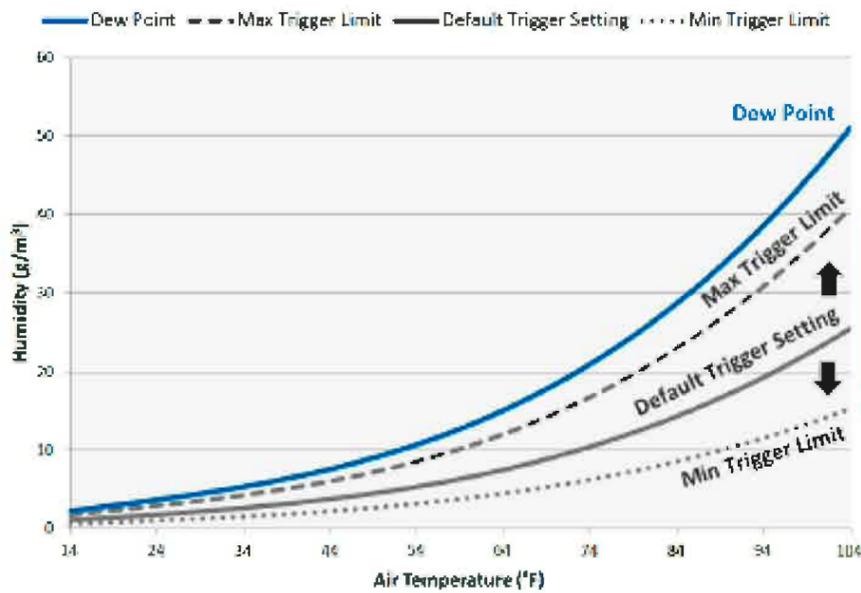
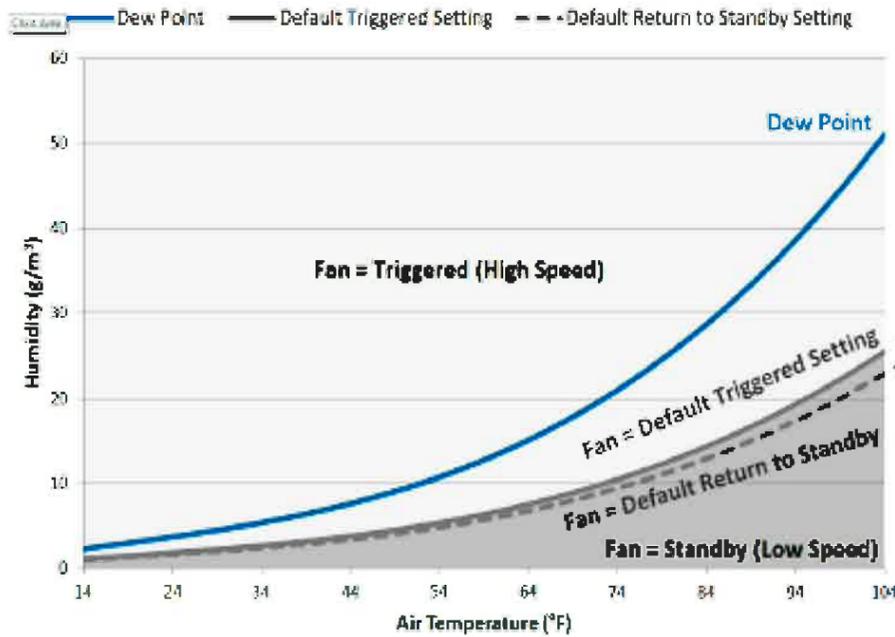


# ASHRAE/Moisture Management Control Threshold

## Fan trigger and Sensitivity adjustment



## Fan trigger for operating and standby



“Fan on” threshold  
When Humidity and  
Temperature level cross from  
standby area to this line fan  
will be ON.  
(Delay timer will be reset)

Point at which (delay) timer is  
activated  
This line will be changed by  
Sensitivity adjustment.

# Panasonic<sup>®</sup> WhisperControl



FV-WCCS1-W



FV-WCCS2-A

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**FUNCTIONS**

**Basic Ventilation Function**

1. **Push On**—Fan turns on. Push again—fan turns off.
2. **Push on**—Walk away. Fan turns off in 20 minutes.

**AHRAE Function**

3. **Set Minutes per Hour** to desired value—Fan runs every hour, at the back of the hour according to setting.
4. Manually run fan anytime during the hour and the built-in timer accumulates the time and credits against the intermittent time set to run as Minutes per Hour.

**Sensitivity Function**

5. **Sensitivity function** should be set between 12:00 o'clock and 2:00 o'clock for most applications.
6. **Rise over time.** If the sensor senses a humidity bloom it will activate the fan. Once activated by the sensor, the fan will run for 30 minutes from the time the sensor no longer sees a moisture bloom.
7. **Manual override.** The fan can be turned off after seeing a moisture bloom (push button), however if the sensor continues to see humidity rising over time it will restart the fan.
8. **Condensation.** If the sensor sees a combination of humidity and temperature within the threshold (Sensitivity) setting, the control will activate the fan. The fan will continue to run until the combination of humidity and temperature move away from the threshold of dew point. Then the fan will run for 30 minutes to assure the moisture/temperature has normalized.
9. **Manual override.** The fan can be turned off (push button) after seeing a combination of humidity and temperature within the threshold (Sensitivity) setting, however if the sensor continues to see the combination the control will restart the fan.

# Panasonic

## WhisperControl ASHRAE/Moisture Management Control

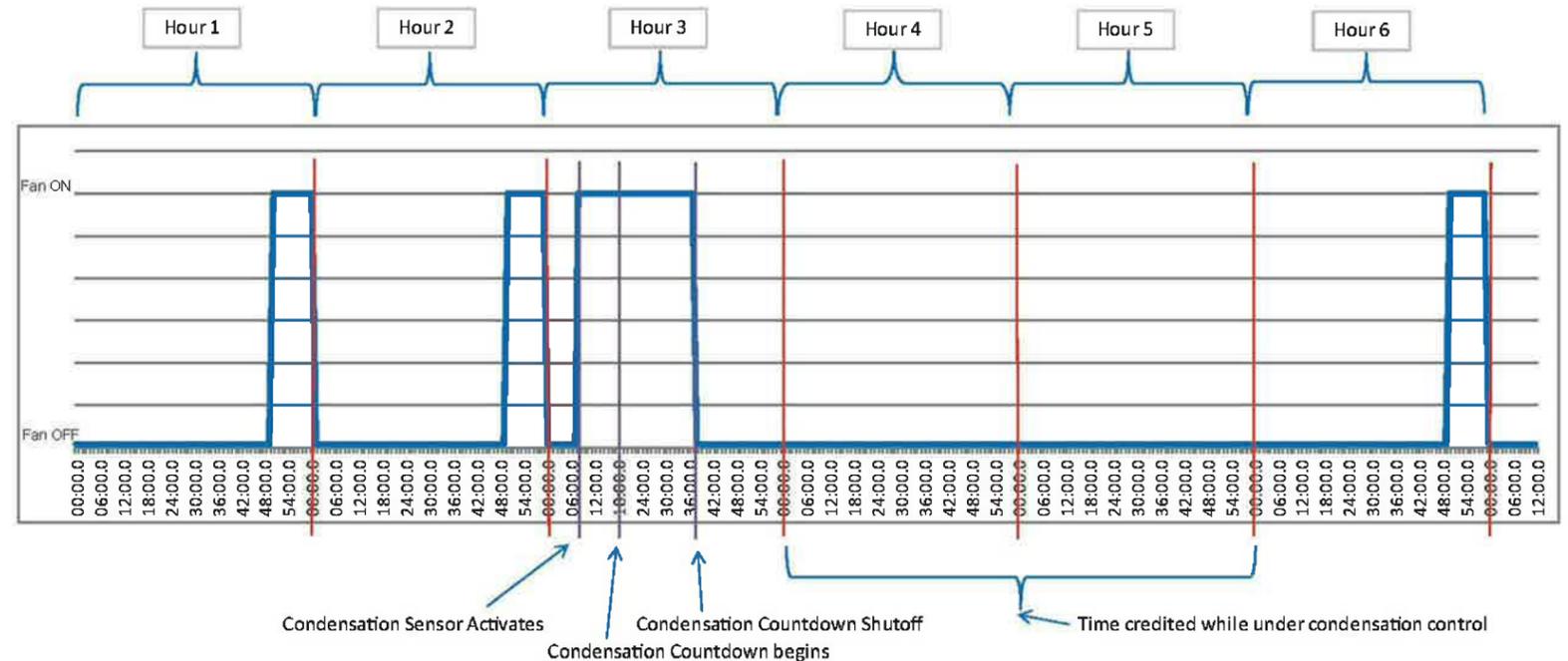
FV-WCCS1-A or W 6 Units/Master Pack Condensation Sensor, Humidity Control, Countdown Timer, 1 button On-Off, Moisture sensitivity selector, adjustable *Minutes Per Hour* fan timer can comply with ASHRAE 62.2, White/Almond, Wall Plate included

FV-WCCS2-A or W 6 Units/Master Pack Condensation Sensor, Humidity Control, Countdown Timer, 2 button On-Off Fan/Light, Moisture sensitivity selector, adjustable *Minutes Per Hour* fan timer can comply with ASHRAE 62.2, White/Almond, Wall Plate included



**ASHRAE/Condensation Timer Explanation**

- Hour 1 – ASHRAE timer control set to 10 min per hour
- Hour 2 – ASHRAE timer control set to 10 min per hour
- Hour 3 – Condensation sensor activates fan approximately 7 minutes into cycle
- Hour 3 – Sensor no longer detects moisture after 6 minutes (in this example)
- Hour 3 – Sensor timer runs fan for additional 30 minutes.
- Hour 4 – Timer credits ASHRAE fan run time for excess time occurring in Hour 3
- Hour 5 – Timer credits ASHRAE fan run time for excess time occurring in Hour 3
- Hour 6 – ASHRAE timer control activates fan for 10 minutes per hour as set



# ASHRAE ventilation solutions

| Required cont airflow | (Net Flow) Fan Size | Intermittent time | Required cont airflow | (Net Flow) Fan Size | Intermittent time |
|-----------------------|---------------------|-------------------|-----------------------|---------------------|-------------------|
| 15 cfm                | 20                  | 45.0 min          | 20 cfm                | 20                  | 60.0 min          |
| 15 cfm                | 30                  | 30.0 min          | 20 cfm                | 30                  | 40.0 min          |
| 15 cfm                | 40                  | 22.5 min          | 20 cfm                | 40                  | 30.0 min          |
| 15 cfm                | 50                  | 18.0 min          | 20 cfm                | 50                  | 24.0 min          |
| 15 cfm                | 60                  | 15.0 min          | 20 cfm                | 60                  | 20.0 min          |
| 15 cfm                | 70                  | 12.9 min          | 20 cfm                | 70                  | 17.1 min          |
| 15 cfm                | 80                  | 11.3 min          | 20 cfm                | 80                  | 15.0 min          |
| 15 cfm                | 90                  | 10.0 min          | 20 cfm                | 90                  | 13.3 min          |
| 15 cfm                | 100                 | 9.0 min           | 20 cfm                | 100                 | 12.0 min          |
| 15 cfm                | 110                 | 8.2 min           | 20 cfm                | 110                 | 10.9 min          |
| 15 cfm                | 120                 | 7.5 min           | 20 cfm                | 120                 | 10.0 min          |
| 15 cfm                | 130                 | 6.9 min           | 20 cfm                | 130                 | 9.2 min           |
| 15 cfm                | 140                 | 6.4 min           | 20 cfm                | 140                 | 8.6 min           |
| 15 cfm                | 150                 | 6.0 min           | 20 cfm                | 150                 | 8.0 min           |

| Required cont airflow | (Net Flow) Fan Size | Intermittent time | Required cont airflow | (Net Flow) Fan Size | Intermittent time |
|-----------------------|---------------------|-------------------|-----------------------|---------------------|-------------------|
| 30 cfm                | 30                  | 60.0 min          | 40 cfm                | 40                  | 60.0 min          |
| 30 cfm                | 40                  | 45.0 min          | 40 cfm                | 50                  | 48.0 min          |
| 30 cfm                | 50                  | 36.0 min          | 40 cfm                | 60                  | 40.0 min          |
| 30 cfm                | 60                  | 30.0 min          | 40 cfm                | 70                  | 34.3 min          |
| 30 cfm                | 70                  | 25.7 min          | 40 cfm                | 80                  | 30.0 min          |
| 30 cfm                | 80                  | 22.5 min          | 40 cfm                | 90                  | 26.7 min          |
| 30 cfm                | 90                  | 20.0 min          | 40 cfm                | 100                 | 24.0 min          |
| 30 cfm                | 100                 | 18.0 min          | 40 cfm                | 110                 | 21.8 min          |
| 30 cfm                | 110                 | 16.4 min          | 40 cfm                | 120                 | 20.0 min          |
| 30 cfm                | 120                 | 15.0 min          | 40 cfm                | 130                 | 18.5 min          |
| 30 cfm                | 130                 | 13.8 min          | 40 cfm                | 140                 | 17.1 min          |
| 30 cfm                | 140                 | 12.9 min          | 40 cfm                | 150                 | 16.0 min          |
| 30 cfm                | 150                 | 12.0 min          |                       |                     |                   |