

**ERRATA SHEET FOR ASHRAE Guideline 14-2023
Measurement of Energy, Demand, and Water Savings**

May 10, 2024

The corrections listed in this errata sheet apply to ASHRAE Guideline 14-2023. The first printing is identified on the outside back cover as “Product code: 86890 8/23”. Shaded items have been added since the previously published errata sheet dated April 8, 2024 was distributed.

Page Erratum

15 **4.2.10 Net Determination Bias.** Change the last paragraph in Section 4.2.10 as shown below.

(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

4.2.10 Net Determination Bias.

[...]

Net determination bias should be no more than 0.005% ~~0.5%~~ for regression models for whole-building and retrofit isolation approaches.

51 **Table 7-2 Water Use Standard (SI).** Correct the water usage values for residential clothes washers and dishwashers in Table 7-2 (SI) as shown in the attached, highlighted in yellow.

Table 7-2 Water Use Standard (SI)

| Item | Water Flow | | | | | Use | | | | | | | | |
|--|--------------------|--------------------|------------------------|-------------------|-------------------|------------------|------------------|------------------|--------------------|-------------------|----------|-------------------|-------------------|-------|
| | Std Pre-1990 | Std | Energy Policy Act 1997 | Low Post-2000 | Unit ^a | Male Use | Female Use | Male Visitor Use | Female Visitor Use | Unit ^a | Cleaning | Unit ^a | Time (Minutes) | Units |
| Symbol | S | L | VL | | M | F | MV | FV | | C | | T | | |
| Sanitation | | | | | | | | | | | | | | |
| Water closet tank type | 17.03 ^b | 13.25 ^b | 6.06 ^b | 3.79 ^b | LPF | 1.0 ^c | 3.0 ^c | 0.1 ^c | 0.5 ^c | FPDPP | 1 | FPD | | |
| Water closet dual flush tank type (low flush) | | 6.06 ^b | 4.16 ^b | 3.03 | LPF | 1.0 ^c | 2.0 | 0.1 ^c | 0.5 ^c | FPDPP | 1 | FPD | | |
| Water closet flush valve | 17.03 ^b | 13.25 ^b | 6.06 ^b | 3.79 ^b | LPF | 1.0 ^c | 3.0 ^c | 0.1 ^c | 0.5 ^c | FPDPP | 1 | FPD | | |
| Water closet flush valve dual flush type (low flush) | | 6.06 ^b | 4.16 ^b | 3.03 | LPF | 1.0 ^c | 2.0 | 0.1 ^c | 0.5 ^c | FPDPP | 1 | FPD | | |
| Urinal | 13.25 ^b | 5.68 ^b | 3.79 ^b | 0 | LPF | 2.0 ^c | | 0.4 ^c | | FPDPP | 1 | FPD | | |
| Urinal (high efficiency) | | 3.79 | 3.79 ^b | 1.89 | LPF | 2.0 ^c | | 0.4 ^c | | FPDPP | 1 | FPD | | |
| Lavatory faucet (cold water [CW] only) | 0.38 ^b | 0.25 ^b | 0.16 ^b | 0.03 ^b | LPS | 3.0 ^c | 3.0 ^c | 0.5 ^c | 0.5 ^c | UPD | 1.89 | LPD | 0.15 ^c | MPU |
| Lavatory faucet (tempered CW component) | 0.19 | 0.13 | 0.08 | 0.02 | LPS | 3.0 ^c | 3.0 ^c | 0.5 ^c | 0.5 ^c | UPD | 1.89 | LPD | 0.15 ^c | MPU |
| Lavatory faucet automatic (CW only) | | 3.79 | 0.95 ^b | 0.95 ^b | LPV | 3.0 ^c | 3.0 ^c | 0.5 ^c | 0.5 ^c | UPD | 1.89 | LPD | 0.15 ^c | MPU |
| Lavatory faucet automatic (tempered CW component) | | 0.5 | 0.13 | 0.13 | LPV | 3.0 ^c | 3.0 ^c | 0.5 ^c | 0.5 ^c | UPD | 1.89 | LPD | 0.15 ^c | MPU |
| Sink faucet (CW only) | 0.16 | 0.16 | 0.06 | 0.06 | LPS | 1.0 ^c | 1.0 ^c | | | UPD | 1.89 | LPD | 0.25 ^c | MPU |
| Sink Faucet (tempered) | 0.08 | 0.08 | 0.03 | 0.03 | LPS | 1.0 ^c | 1.0 ^c | | | UPD | 1.89 | LPD | 0.25 ^c | MPU |
| Shower (CW only) | 0.41 ^b | 0.22 ^b | 0.16 ^b | 0.09 ^b | LPS | 0.1 ^c | 0.1 ^c | | | UPD | 1.89 | LPD | 5.0 ^c | MPU |
| Shower (tempered) | 0.21 | 0.11 | 0.08 | 0.05 | LPS | 0.1 ^c | 0.1 ^c | | | UPD | 1.89 | LPD | 5.0 ^c | MPU |
| Trap primer | 15.14 ^d | 1.89 ^c | 1.89 ^c | 1.89 ^c | LPD | | | | | | | | | |
| Hot Water | | | | | | | | | | | | | | |
| Lavatory faucet (hot water HW) only) | 0.38 ^b | 0.25 ^b | 0.16 ^b | 0.03 ^b | LPS | 3.0 ^c | 3.0 ^c | 0.5 ^c | 0.5 ^c | UPD | 1.89 | LPD | 0.15 ^c | MPU |
| Lavatory faucet (tempered HW component) | 0.19 | 0.13 | 0.08 | 0.02 | LPS | 3.0 ^c | 3.0 ^c | 0.5 ^c | 0.5 ^c | UPD | 1.89 | LPD | 0.15 ^c | MPU |
| Lavatory faucet automatic (tempered HW component) | | 0.5 | 0.13 | 0.13 | LPV | 3.0 ^c | 3.0 ^c | 0.5 ^c | 0.5 ^c | UPD | 1.89 | LPD | 0.15 ^c | MPU |
| Sink faucet (HW only) | 0.16 | 0.16 | 0.06 | 0.06 | LPS | 1.0 ^c | 1.0 ^c | | | UPD | 1.89 | LPD | 0.25 ^c | MPU |

| | | | | | | | | | | | | | | |
|-------------------------------------|-------------------|-------------------|-------------------|-------------------|-----|------------------|------------------|--|--|-----|------|-----|-------------------|-----|
| Sink faucet (tempered HW component) | 0.08 | 0.08 | 0.03 | 0.03 | LPS | 1.0 ^c | 1.0 ^c | | | UPD | 1.89 | LPD | 0.25 ^c | MPU |
| Shower | 0.41 ^b | 0.22 ^b | 0.16 ^b | 0.09 ^b | LPS | 0.1 ^c | 0.1 ^c | | | UPD | 1.89 | LPD | 5.0 ^c | MPU |
| Shower (tempered HW component) | 0.21 | 0.11 | 0.08 | 0.05 | LPS | 0.1 ^c | 0.1 ^c | | | UPD | 1.89 | LPD | 5.0 ^c | MPU |
| Clothes washer (residential) | | 189 | 170 | 94.6 | LPU | 1.0 | 1.0 | | | UPD | | | | |
| Dishwasher (residential) | | 49.2 | 49.2 | 22.7 | LPU | 0.2 | 0.2 | | | UPD | | | | |