



Sizing Multiple Fixture Installations

Multiple Fixture Sizing Suggestions

Use this chart to help size Big Dipper equipment that will service multiple fixtures. Use standard Big Dipper systems for cases where the Big Dipper is less than 4 feet (1.25 m) beneath the fixtures being serviced. For installations where the Big Dipper is servicing multiple fixtures and will be facing more than 6 feet (1.95 m) of head pressure use the next size Big Dipper system or install a Big Dipper AST (Automatic Solids Transfer) Central Grease Removal System. **Never install a smaller Big Dipper system than the rated GPM the chart calculates.** Consult a licensed plumber regarding your specific requirements.

Multiple Fixture Flow Calculation:

| Fixture | # Fixtures | Fixture Value (l/s) | Total Fixture (l/s) | Averaging Multiplier | Flow Rating (l/s) |
|--------------------|------------|---------------------|---------------------|----------------------|-------------------|
| Floor Drains | # | 0.47 | # x 0.47 | 0.10 | # l/s |
| 3 Compartment sink | # | 1.6 | # x 1.6 | 0.25 | # l/s |
| Pre-rinse Sink | # | 0.95 | # x 0.95 | 0.25 | # l/s |
| Mop Sink | # | 0.95 | # x 0.95 | 0.25 | # l/s |
| 2 Compartment Sink | # | 1.6 | # x 1.6 | 0.25 | # l/s |
| Hand Sink | # | 0.47 | # x 0.47 | 0.25 | # l/s |

Example:

| Fixture | # Fixtures | Fixture Value (l/s) | Total Fixture (l/s) | Averaging Multiplier | Flow Rating (l/s) |
|--------------------|------------|---------------------|---------------------|----------------------|-------------------|
| Floor Drains | 12 | 0.47 | 5.64 | 0.10 | 0.56 |
| 3 Compartment sink | 2 | 1.6 | 3.2 | 0.25 | 0.8 |
| Pre-rinse Sink | 2 | 0.95 | 0.95 | 0.25 | 0.474 |
| Mop Sink | 1 | 0.95 | 0.95 | 0.25 | 0.237 |
| 2 Compartment Sink | 1 | 1.6 | 1.6 | 0.25 | 0.4 |
| Hand Sink | 2 | 0.47 | 0.94 | 0.25 | 0.235 |
| | | | | | Total 2.706 l/s |

Note: Always use next larger size unit than the calculated flow rating. In this case, a W-500-IS-E system would adequately handle the kitchen flow.

*To minimize grease/detergent emulsification, plumbing dishwashers directly into the sanitary sewer line is recommended. Consult local codes or a licensed plumber when considering plumbing a dishwasher to a Big Dipper unit.

** Thermaco recommends the use of the FS-1 Flat Strainer or ESU-1 External Strainer Basket in combination with the Big Dipper in pre-rinse areas.