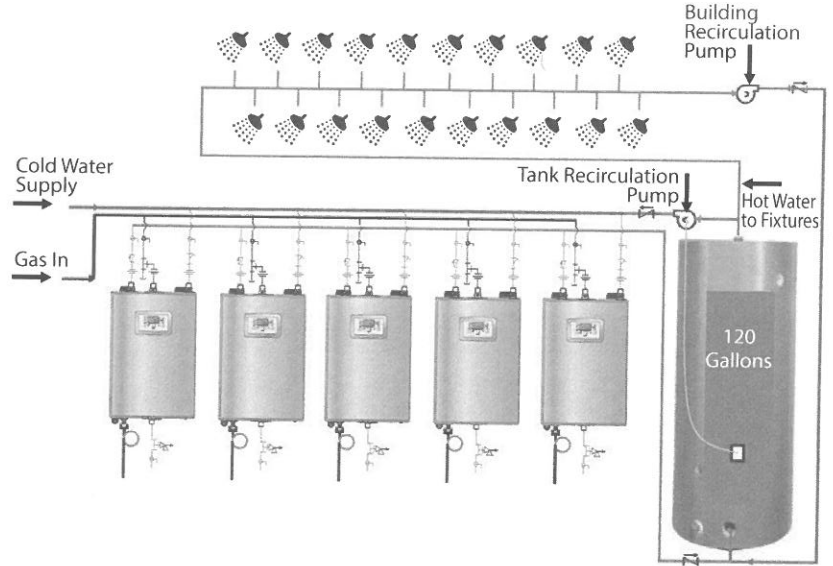


# MASTERLESS MANIFOLD SYSTEM

The Hesco GX Condensing Tankless Water Heaters have a significant operational advantage for commercial applications. Short and quick deliveries of relatively large volumes of hot water are difficult for pure tankless systems: whether it be the cycling of the pre-rinse sprayers and/or dishwashers in restaurants, the 60 lb laundry machines in hotels and laundromats, the constant cycling of the wands in hair salons, the cycling of the sprayers in multi-bay car washes, batch/dump load processing or the peak loads in sports clubs, apartment buildings and hotels, tankless cannot react quick enough in many cases to properly supply stable temperatures. For these type of applications, tankless works best in combination with a storage tank to deliver uniform hot water at the highest levels of efficiency.

**SAMPLE COMMERCIAL MANIFOLD SYSTEM**  
Multi-Unit GX Series with External 'Tank-Loading', Storage and Building Recirculation



## ADDITIONAL TECHNICAL INFORMATION

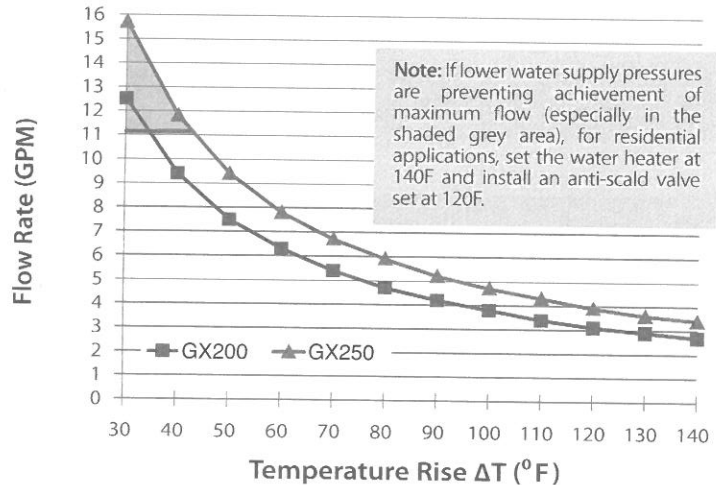
### Venting

**Maximum Vent Length Table**

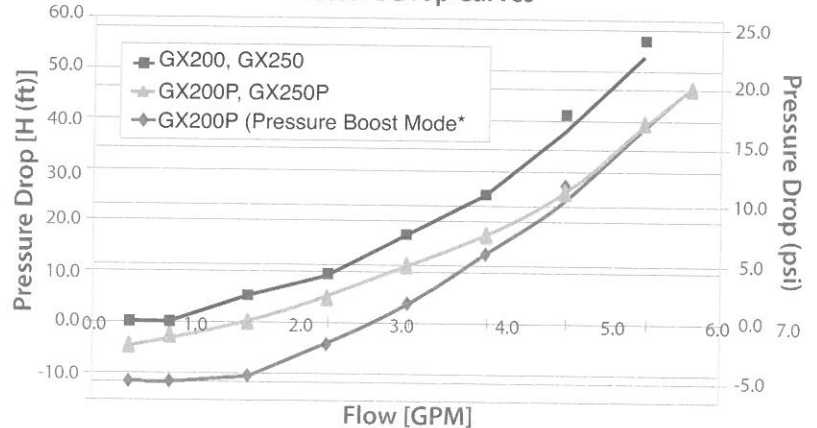
| Number of units | Venting Type | Duct Size<br>btu/h Input | 2"     |        | 3"     |        | 4"     |        | 6"     |        | 8"     |        |
|-----------------|--------------|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 |              |                          | GX 200 | GX 250 | GX 200 | GX 250 | GX 200 | GX 250 | GX 200 | GX 250 | GX 200 | GX 250 |
| 1               | 1 pipe - PV  |                          | 26'    | 200'   | 130'   | 200'   | 130'   |        |        |        |        |        |
|                 | 2 pipe - DV  |                          | 21'    | 100'   | 65'    | 100'   | 65'    |        |        |        |        |        |
| 2               | 1 pipe - PV  |                          |        |        | 200'   | 130'   |        |        |        |        |        |        |
|                 | 2 pipe - DV  |                          |        |        | 100'   | 65'    |        |        |        |        |        |        |
| 3               | 1 pipe - PV  |                          |        |        | 100'   | 30'    | 200'   | 130'   |        |        |        |        |
|                 | 2 pipe - DV  |                          |        |        | 50'    | 30'    | 100'   | 65'    |        |        |        |        |
| 4               | 1 pipe - PV  |                          |        |        |        |        | 200'   | 130'   |        |        |        |        |
|                 | 2 pipe - DV  |                          |        |        |        |        | 100'   | 65'    |        |        |        |        |
| 5               | 1 pipe - PV  |                          |        |        |        |        | 200'   | 130'   |        |        |        |        |
|                 | 2 pipe - DV  |                          |        |        |        |        | 100'   | 65'    |        |        |        |        |
| 6               | 1 pipe - PV  |                          |        |        |        |        | 200'   | 130'   |        |        |        |        |
|                 | 2 pipe - DV  |                          |        |        |        |        | 100'   | 65'    |        |        |        |        |
| 7               | 1 pipe - PV  |                          |        |        |        |        | 150'   | 45'    |        |        |        |        |
|                 | 2 pipe - DV  |                          |        |        |        |        | 75'    | 45'    |        |        |        |        |
| 8               | 1 pipe - PV  |                          |        |        |        |        | 100'   | 30'    | 200'   | 130'   |        |        |
|                 | 2 pipe - DV  |                          |        |        |        |        | 50'    | 30'    | 100'   | 65'    |        |        |
| 10              | 1 pipe - PV  |                          |        |        |        |        |        |        | 200'   | 130'   |        |        |
|                 | 2 pipe - DV  |                          |        |        |        |        |        |        | 100'   | 65'    |        |        |

Note: • Reduce the maximum equivalent length above by 5 feet per 90° elbow and by 2 feet per 45° elbow used. Do not exceed the above set limits.  
• PV= Power Vent DV= Direct Vent

**Flow Rates at Various Temperature Rises**



**Pressure Drop Curves**



\*In "pressure boost" mode, the optional internal pump boosts the delivered water pressure to overcome the heaters pressure drop. In fact, at flow rates below 3 GPM, there is no pressure drop, but a pressure increase.