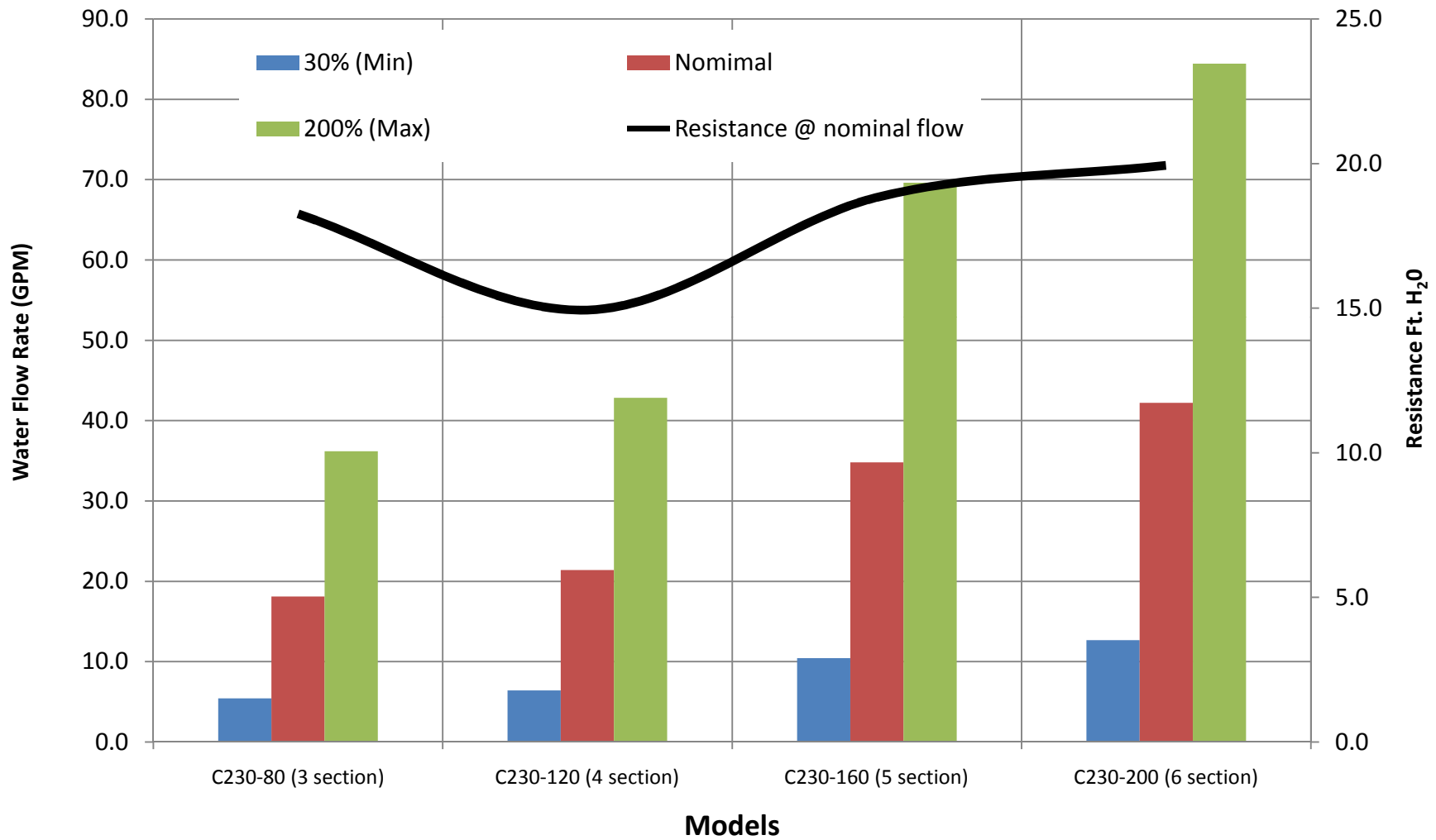


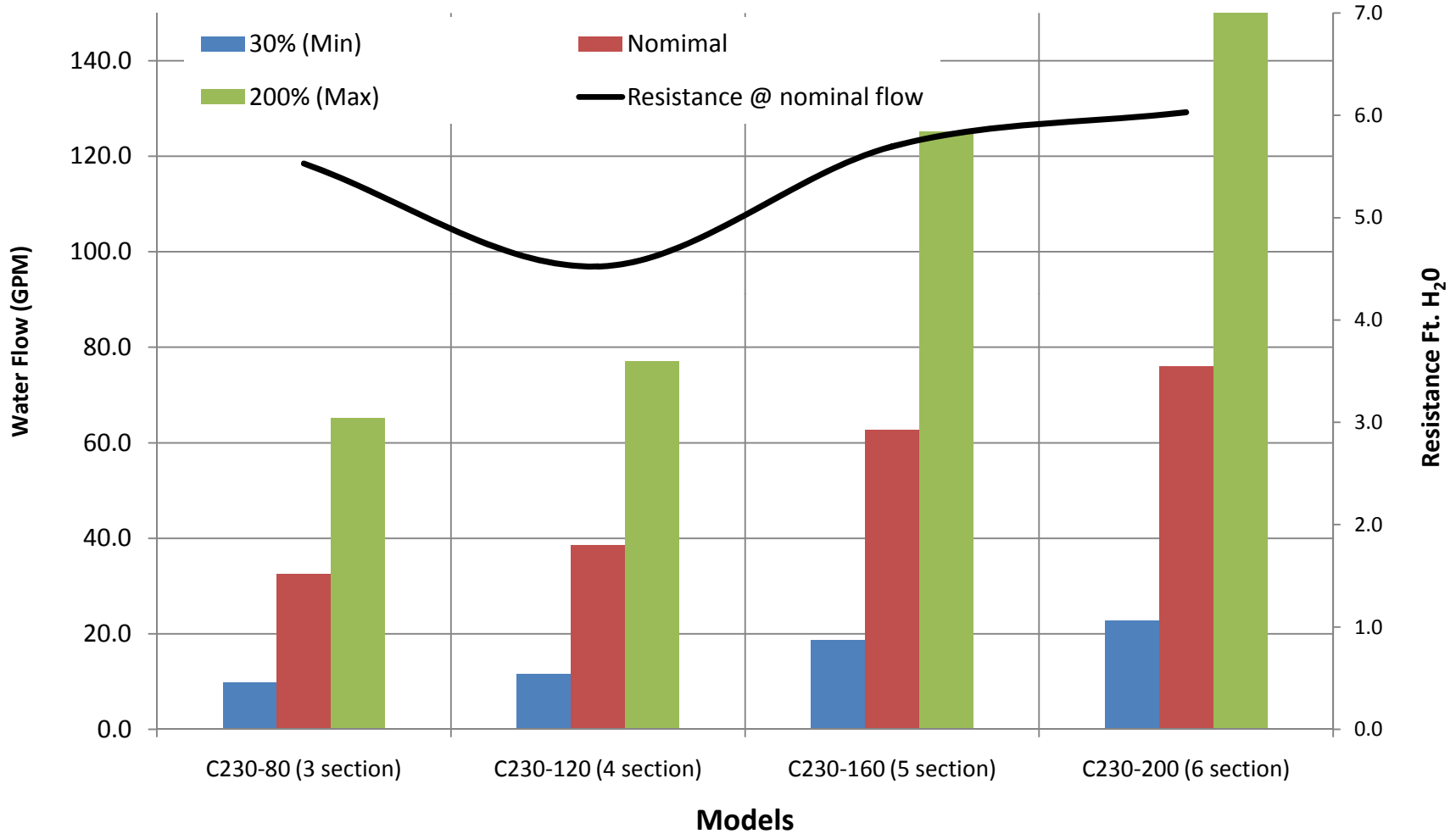


C230 Eco-A Series Boiler Water Nomimal Flow Vs. Resistance 36°F [20°C] Δ_T

DDR Americas Inc.
DeDietrich Boilers North America



C230 Eco-A Series
Boiler Water Nomimal
Flow Vs. Resistance 20°F [11°C] Δ_T



Water flow calculations De Dietrich C230 Eco-A Series

| Full Output Operating Flow Rates | | | | | | | |
|----------------------------------|-----------|------------|---------|------|-------------------|----------------------------------|------|
| | | 30% | Nominal | 200% | Nominal | | |
| Model | Input Btu | Output Btu | GPM | | m ³ /H | @ 11K or 20° F [ΔT] | |
| C230-80 (3 section) | 338,000 | 318,000 | 9.8 | 32.6 | 65.2 | | 7.4 |
| C230-120 (4 section) | 400,000 | 376,000 | 11.6 | 38.6 | 77.1 | | 8.8 |
| C230-160 (5 section) | 645,000 | 611,000 | 18.8 | 62.7 | 125.3 | | 14.2 |
| C230-200 (6 section) | 779,000 | 741,000 | 22.8 | 76.0 | 152.0 | | 17.3 |

| Full Output Operating Flow Rates | | | | | | | |
|----------------------------------|-----------|------------|---------|------|-------------------|----------------------------------|-----|
| | | 30% | Nominal | 200% | Nominal | | |
| Model | Input Btu | Output Btu | GPM | | m ³ /H | @ 20K or 36° F [ΔT] | |
| C230-80 (3 section) | 338,000 | 318,000 | 5.4 | 18.1 | 36.2 | | 4.1 |
| C230-120 (4 section) | 400,000 | 376,000 | 6.4 | 21.4 | 42.8 | | 4.9 |
| C230-160 (5 section) | 645,000 | 611,000 | 10.4 | 34.8 | 69.6 | | 7.9 |
| C230-200 (6 section) | 779,000 | 741,000 | 12.7 | 42.2 | 84.4 | | 9.6 |

| Resistance (pressure drop) heat exchanger | | | | | |
|---|--------|--------|---------|---------------------|--|
| | | mbar | | Ft H ₂ O | |
| Model | 11K DT | 20K DT | 20°F DT | 36°F DT | |
| C230-80 (3 section) | 545 | 165.0 | 18.3 | 5.5 | |
| C230-120 (4 section) | 446 | 135.0 | 14.9 | 4.5 | |
| C230-160 (5 section) | 562 | 170.0 | 18.8 | 5.7 | |
| C230-200 (6 section) | 595 | 180.0 | 19.9 | 6.0 | |