## Universal Electronic Water Level Controllers

- NEMA 4X enclosure
- Enclosure is $83 / 4^{\prime \prime} \mathrm{H} \times 101 / 2$ "W x 6 "D

Provide precise control that compensates for wave action and manages water levels to within $1 / 8$ " of operating range. Sensor rods will not plate foul or deteriorate, no matter the water quality. Digital circuitry easily integrates with existing building automation systems. Modular, quick-connect design. Control panel has water level and fault indicators and diagnostic self-test button. 15-yr. duty cycle. For cooling towers, water and stormwater holding and storage tanks, irrigation lakes, and sewage water systems. Each includes $20 " L \times 3 "$ dia. PVC pipe containing $1 / 4^{\prime \prime}$ stainless steel probes, $50-\mathrm{ft}$. sensor wire, mounting bracket, and U-bolts.

| -t. sensor |  | Input Voltage |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 110V AC | 60 Hz | 220V AC 5 |  |
| Operating | Switch | Mfr. | Item | Mfr. | Item |
| Sensors Incl. Range | Type | Model | No. | Model | No. |
| Fill Height Only $11 / 2 \mathrm{in}$ | SPST | WLC3000-120VAC | 4GHK3 | WLC3000-220VAC | 4GHK8 |
| Fill Height w/ High Level Alarm $11 / 2$ and 3 in | (2)SPST | WLC4000-120VAC | 4GHK4 | WLC4000-220VAC | 4GHK9 |
| Fill Height w/ Low Level Alarm $\quad 1 / 2$ and 6 in | (3)SPST | WLC4500-120VAC | 4GHK5 |  |  |
| Fill Height w/High \& Low Level Alarm 11⁄2, 3, and 6 in | (3)SPST | WLC5000-120VAC | 4GHK6 | WLC5000-220VAC | 4GHL1 |
| Fill Height w/ High \& Low Level $1 ½, 3,6$, and 10 in | (4)SPST | WLC6000-120VAC | 4GHK7 | WLC6000-220VAC | 4GHL2 |



## Shell and Tube Heat Exchangers

Standard XChange ${ }^{\circ}$

BRASS

- Max. working pressure: shell side 300 psi ; tube side 150 psi
- Max. temp.: shell side $300^{\circ} \mathrm{F}$; tube side $300^{\circ} \mathrm{F}$


## Max. BtuH

## Water) to Max. BtuH (Oil

Water) Connection \begin{tabular}{lll}
240,000 \& 12,700 BtuH \& Shell 1 in NPT, Tube $3 / 4$ in NP <br>
\hline 270,000 \& 28,000 BtuH \& Shell 1 in NPT, Tube $3 / 4$ in NP <br>
\hline

 

230,000 \& 28,000 BtuH \& Shell 1 in NPT, Tube $3 / 4$ in NPT <br>
\hline 33,000 \& 50 <br>
\hline

 $\begin{array}{llll}350,000 & 56,000 \text { BuH } & \text { Shell } 11 / 2 \text { iPT, Tube } / 4 \text { in NPT } & 4.8 \\ 525,000 & 42,700 \text { BtuH } & \text { Shell } 11 / 2 \text { in NPT, Tube } 1 \text { in NPT } & 7 .\end{array}$ 

525,000 \& 42,700 BtuH \& Shell $11 / 2$ in NPT, Tube 1 in NPT 7 in <br>
$1,350,000$ \& 134,000 BtuH \& Shell 2 in NPT Tube $11 / 2$ in NPT <br>
\hline 10375

 

$1,350,000$ \& 124,000 BtuH Shell 2 in NPT, Tube $1 / 2$ in NPT \& 8.375 in <br>
\hline $1,600,000$ \& 239,000 BtuH Shell 2 in NPT, Tube $11 / 2$ in NPT \& 8.375 in \& 41 <br>
\hline

 

$1,600,000$ \& 239,000 BtuH Shell 2 in NPT, Tube $1 / 1 / 2$ in NPT <br>
\hline $2,400,000$ \& 280,000 BtuH <br>
\hline

 

\hline $2,750,000$ \& 400,000 But <br>
\hline $3,100,000$ \& 516,000 BuH <br>
\hline
\end{tabular} $3,100,000516,000$ BtuH Shell 3 in NPT, Tube 2 in NPT $3,450,000631,000$ BtuH Shell 3 in NPT, Tube 2 in NPT 11 in 66.625 in 10.5 in SN503008060005 5TNW2 SN516008060006 5TNX3 * Baser 649,000 BtuH Shell 3 in NPT, Tube 2 in NPT 11 in 78.625 in 10.5 in SN503008072005 5TNW3 $\operatorname{SN516008072006~5TNX4~}$ * Based on cooling $180^{\circ} \mathrm{F}$ water with $85^{\circ} \mathrm{F}$ cooling water and 10 psi pressure differential. ** Heat removed for max. flow (150 SSU oil @ $100^{\circ} \mathrm{F}$ ) exiting @ $120^{\circ} \mathrm{F}$ with cooling water @ $85^{\circ} \mathrm{F}$ and $10^{\circ} \mathrm{F}$ rise.

## 316 STAINLESS STEEL

- Max. working pressure: shell side 225 psi; tube side 150 psi
- Max. temp.: shell side $425^{\circ} \mathrm{F}$; tube side $425^{\circ} \mathrm{F}$


## Brazed Plate Heat Exchangers

- Max. pressure: 435 psig design (6RGF1 to 6RGF6 are 390 psig design)
- Temp. range: $-40^{\circ}$ to $300^{\circ} \mathrm{F}$

| Max. BtuH* | Max. Max. <br> BtuH** (Oil BtuH $\dagger$ (R22 to Water) to Water) |  | Connection | $\begin{gathered} \mathrm{w} \\ \text { (in.) } \end{gathered}$ |  |  |  |  | 316L STAINLESS STEEL, NICKEL BRAZE |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (Water to Water) |  |  | $\begin{gathered} \mathrm{H} \\ \text { (in.) } \end{gathered}$ |  |  |  |  |  | (in.) | Mfr. Model | Item |
| Oil |  |  |  |  |  |  |  |  |  |  |  |  |
| 135,000 |  |  | 12,725 | - | 1 in MNPT | 4.37 in | 12.2 in | 1.37 in | BP410-10-LCA | 2NXR4 | 12.2 in | 1.64 in | BPN410-10 LCA | 6RGD9 |
| 350,000 | 25,450 | - |  | 1 in MNPT | 4.37 in | 12.2 in | 2.34 in | BP410-20-LCA | 2NXR5 | 12.2 in | 2.61 in | BPN410-20 LCA | 6RGEO |
| 500,000 | 50,900 | - |  | 1 in MNPT | 4.37 in | 12.2 in | 3.31 in | BP410-30-LCA | 2NXR6 | 12.2 in | 3.58 in | BPN410-30 LCA | 6RGE1 |
| 700,000 | 76,350 | - | 1 in MNPT | 4.37 in | 12.2 in | 4.28 in | BP410-40-LCA | 2NXR7 | 12.2 in | 4.55 in | BPN410-40 LCA | 6RGE2 |
| 1,200,000 | 127,250 | - | 1 in MNPT | 4.37 in | 12.2 in | 6.22 in | BP410-60-LCA | 2NXR9 | 12.2 in | 6.49 in | BPN410-60 LCA | 6RGE4 |
| 1,100,000 | 190,875 |  | 2 in MNPT | 7.48 in | 24.3 in | 3.853 in | BP422-30-LCA | 2NXT7 | 24.3 in | 4.123 in | BPN422-30 LCA | 6RGF1 |
| 2,000,000 | 279,950 | - | 2 in MNPT | 7.48 in | 24.3 in | 6.155 in | BP422-50-LCA | 2NXT9 | 24.3 in | 6.425 in | BPN422-50 LCA | 6RGF3 |
| 2,500,000 | 281,750 | - | 2 in MNPT | 7.48 in | 24.3 in | 7.306 in | BP422-60-LCA | 2NXU1 | 24.3 in | 7.576 in | BPN422-60 LCA | 6RGF4 |
| 5,900,000 | 509,000 | - | 2 in MNPT | 7.48 in | 24.3 in | 9.608 in | BP422-80-LCA | 2NXU2 | 24.3 in | 9.878 in | BPN422-80 LCA | 6RGF5 |
| 5,900,000 | 636,250 | - | 2 in MNPT | 7.48 in | 24.3 in | 11.91 in | BP422-100-LCA | 2NXU3 | 24.3 in | 12.18 in | BPN422-100 LCA | 6RGF6 |
| Oil, Double Wall |  |  |  |  |  |  |  |  |  |  |  |  |
| 85,835 | 32,000 | - | 1 in MNPT | 4.37 in | 12.2 in | 2.65 in | BPDW410-20 LCA | 6RGC2 | - | - | - | - |
| 134,881 | 50,000 | - | 1 in MNPT | 4.37 in | 12.2 in | 3.78 in | BPDW410-30 LCA | 6RGC3 | - | - | - | - |
| 139,610 | 35,000 | - | 1 in MNPT | 4.37 in | 20.7 in | 1.37 in | BPDW415-10 LCA | 6RGC6 | - | - | - | - |
| 183,929 | 65,000 | - | 1 in MNPT | 4.37 in | 12.2 in | 4.91 in | BPDW410-40 LCA | 6RGC4 | - | - | - |  |
| 282,024 | 98,000 | - | 1 in MNPT | 4.37 in | 12.2 in | 7.16 in | BPDW410-60 LCA | 6RGC5 | - | - | - | - |
| 317,243 | 78,000 | - | 1 in MNPT | 4.37 in | 20.7 in | 2.65 in | BPDW415-20 LCA | 6RGC7 | - | - | - | - |
| 492,134 | 123,000 | - | 1 in MNPT | 4.37 in | 20.7 in | 3.78 in | BPDW415-30 LCA | 6RGC8 | - | - | - |  |
| 661,587 | 170,000 | - | 1 in MNPT | 4.37 in | 20.7 in | 4.91 in | BPDW415-40 LCA | 6RGC9 | - | - | - | - |
| 831,000 | 210,000 | - | 1 in MNPT | 4.37 in | 20.7 in | 6.04 in | BPDW415-50 LCA | 6RGDO | - | - | - |  |
| 995,110 | 242,000 | - | 1 in MNPT | 4.37 in | 20.7 in | 7.16 in | BPDW415-60 LCA | 6RGD1 | - | - | - |  |
| 1,225,875 | 320,000 | - | 1 in MNPT | 4.37 in | 20.7 in | 9.42 in | BPDW415-80 LCA | 6RGD2 | - | - | - | - |
| 1,452,663 | 395,000 | - | 1 in MNPT | 4.37 in | 20.7 in | 11.67 in | BPDW415-100 LCA | 6RGD3 | - | - | - | - |
| 1,566,533 | 450,000 | - | 1 in MNPT | 4.37 in | 20.7 in | 13.92 in | BPDW415-120 LCA | 6RGD4 | - | - | - |  |
| Refrigerant |  |  |  |  |  |  |  |  |  |  |  |  |
|  | - | 6,000 | 1 in MNPT, $1 / 2$ in SW | 4.37 in | 12.2 in | 1.37 in | BPR410-10-LCA | 2NXU4 | 12.2 in | 1.64 in | BPNR410-10 LCA | 6RGF7 |
| - | - | 12,000 | 1 in MNPT, $1 / 2$ in \& ${ }^{1 / 8}$ in SW | 4.37 in | 12.2 in | 1.76 in | BPR410-14-LCA | 2NXU5 | 12.2 in | 2.028 in | BPNR410-14 LCA | 6RGF8 |
| - | - | 30,000 | 1 in MNPT, $1 / 2$ in \& 78 in SW | 4.37 in | 12.2 in | 3.7 in | BPR410-34-LCA | 2NXU6 | 12.2 in | 3.968 in | BPNR410-34 LCA | 6RGF9 |
| - | - | 60,000 | 1 in MNPT, $7 / 8$ in SW | 4.37 in | 20.7 in | 3.12 in | BPR415-28-LCA | 2NXU7 | 20.7 in | 3.386 in | BPNR415-28 LCA | 6RGGO |
| - | - | 90,000 | 1 in MNPT, 78 in SW | 4.37 in | 20.7 in | 4.47 in | BPR415-42-LCA | 2NXU8 | 20.7 in | 4.744 in | BPNR415-42 LCA | 6RGG1 |
| - | - | 120,000 | 1 in MNPT, $7 / 8$ in SW | 4.37 in | 20.7 in | 6.67 in | BPR415-56-LCA | 2NXU9 | 20.7 in | 6.102 in | BPNR415-56 LCA | 6RGG2 |
|  | - | 204,000 | 2 in MNPT, $13 / 8$ in \& $15 / 8$ in SW | 7.48 in | 24.3 in | 6.155 in | BPR422-50-LCA | 2NXV1 | 24.3 in | 6.425 in | BPNR422-50 LCA | 6RGG3 |
| Water |  |  |  |  |  |  |  |  |  |  |  |  |
| 45,000 | - | - | 1 in MNPT | 4.37 in | 12.2 in | 2.34 in | BP411-20-LCA | 2NXT1 |  |  |  |  |
| 60,000 | - | - | 3/4 in MNPT | 3.18 in | 8.2 in | 1.21 in | BP400-10-LCA | 2NXP9 | 8.45 in | 1.45 in | BPN400-10 LCA | 6RGD5 |
| 150,000 | - | - | $3 / 4$ in MNPT | 3.18 in | 8.2 in | 2.02 in | BP400-20-LCA | 2NXR1 | 8.45 in | 2.23 in | BPN400-20 LCA | 6RGD6 |
| 225,000 | - | - | $3 / 4$ in MNPT | 3.18 in | 8.2 in | 2.83 in | BP400-30-LCA | 2NXR2 | 8.45 in | 3.01 in | BPN400-30 LCA | 6RGD7 |
| 350,000 | - | - | $3 / 4$ in MNPT | 3.18 in | 8.2 in | 3.64 in | BP400-40-LCA | 2NXR3 | 8.45 in | 3.79 in | BPN400-40 LCA | 6RGD8 |
| 70,000 | - | - | 1 in MNPT | 4.37 in | 12.2 in | 3.31 in | BP411-30-LCA | 2NXT2 | 12.2 in | 3.58 in | BPN411-30 LCA | 6RGE6 |
| 180,000 | - | - | 1 in MNPT | 4.37 in | 12.2 in | 2.34 in | BP412-20-LCA | 2NXT3 | 12.2 in | 2.61 in | BPN412-20 LCA | 6RGE7 |
| 295,000 |  |  | 1 in MNPT | 4.37 in | 12.2 in | 3.31 in | BP412-30-LCA | 2NXT4 | 12.2 in | 3.58 in | BPN412-30 LCA | 6RGE8 |
| 350,000 | - | - | 1 in MNPT | 4.37 in |  |  |  |  | 12.2 in | 2.61 in | BPN411-20 LCA | 6RGE5 |
| 415,000 | - | - | 1 in MNPT | 4.37 in | 12.2 in | 4.28 in | BP412-40-LCA | 2NXT5 | 12.2 in | 4.55 in | BPN412-40 LCA | 6RGE9 |
| 535,000 |  | - | 1 in MNPT | 4.37 in | 12.2 in | 5.25 in | BP412-50-LCA | 2NXT6 | 12.2 in | 5.52 in | BPN412-50 LCA | 6RGFO |
| 900,000 | - | - | 1 in MNPT | 4.37 in | 12.2 in | 5.25 in | BP410-50-LCA | 2NXR8 | 12.2 in | 5.52 in | BPN410-50 LCA | 6RGE3 |
| 1,500,000 | - | - | 2 in MNPT | 7.48 in | 24.3 in | 5.004 in | BP422-40-LCA | 2NXT8 | 24.3 in | 5.274 in | BPN422-40 LCA | 6RGF2 |

${ }^{*} 180^{\circ} \mathrm{F}$ boiler water inlet, $130^{\circ} \mathrm{F}$ outlet, $50^{\circ} \mathrm{F}$ domestic water inlet, $140^{\circ} \mathrm{F}$ outlet. ${ }^{* *}$ ISO VG_ 46 oil cooled to $125^{\circ} \mathrm{F}$ using a $2: 1$ oil-to-water flow rate and $85^{\circ} \mathrm{F}$ water. $\dagger$ Cool 2.4 gpm per ton of water from $54^{\circ}$ to $44^{\circ} \mathrm{F}$ using R22 at $35^{\circ}$ and $8^{\circ} \mathrm{F}$ superheat.

