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|--|-------------------|
| Sample Heat Exchanger Test Data | |
| Company/Brand/Model | Month/Year |
| Note: Data Sets at flow rates of intended design and at $\pm 50\%$ of typical design temperatures. | |

| Test # | Data Set Matrix | | | | |
|--------|-----------------|-----------|--|----------|-----------|
| | Side 1 | | | Side 2 | |
| | Flow gpm | T Inlet C | | Flow gpm | T Inlet C |
| 1 | 3 | 20 | | 3 | 50 |
| 2 | 3 | 30 | | 3 | 50 |
| 3 | 3 | 40 | | 3 | 50 |
| 4 | 3 | 40 | | 0.75 | 50 |
| 5 | 3 | 20 | | 0.75 | 50 |
| 6 | 0.75 | 30 | | 3 | 50 |
| 7 | 2 | 30 | | 2 | 50 |

Note:
 Conditions are held stable for 10 minutes, prior to the start of collection for each data set.
 Data sets are for 10 minutes, in 30 second intervals.

| | | | |
|--------------------|-----------------------|------------------------------|------------------------------|
| Data Set #1 | Month/Day/Year | (Side 1 = 20C @ 3gpm) | (Side 2 = 50C @ 3GPM) |
|--------------------|-----------------------|------------------------------|------------------------------|

| Digital time | Time | Supply 1 | Return 1 | Supply 2 | Return 2 | Ambient | Flow 2 | Flow 1 |
|--------------|----------|----------|----------|----------|----------|---------|--------|--------|
| 281.438542 | 10:31:30 | 20.141 | 28.962 | 50.141 | 41.298 | 22.632 | 3.09 | 3.1 |
| 281.438889 | 10:32:00 | 20.143 | 28.956 | 50.141 | 41.319 | 22.629 | 3.09 | 3.1 |
| 281.439236 | 10:32:30 | 20.139 | 28.958 | 50.114 | 41.314 | 22.625 | 3.09 | 3.1 |

Provide Ten Minutes of Stable Data at this condition

| | | | |
|--------------------|-----------------------|------------------------------|------------------------------|
| Data Set #2 | Month/Day/Year | (Side 1 = 30C @ 3gpm) | (Side 2 = 50C @ 3GPM) |
|--------------------|-----------------------|------------------------------|------------------------------|

| Digital time | Time | Supply 1 | Return 1 | Supply 2 | Return 2 | Ambient | Flow 2 | Flow 1 |
|--------------|----------|----------|----------|----------|----------|---------|--------|--------|
| 281.708333 | 17:00:00 | 30.051 | 35.911 | 50.246 | 44.339 | 22.191 | 3.09 | 3.1 |
| 281.708681 | 17:00:30 | 30.049 | 35.906 | 50.244 | 44.342 | 22.194 | 3.08 | 3.1 |
| 281.709028 | 17:01:00 | 30.052 | 35.906 | 50.246 | 44.336 | 22.199 | 3.08 | 3.1 |

Provide Ten Minutes of Stable Data at this condition

| | | | |
|--------------------|-----------------------|------------------------------|------------------------------|
| Data Set #3 | Month/Day/Year | (Side 1 = 40C @ 3gpm) | (Side 2 = 50C @ 3GPM) |
|--------------------|-----------------------|------------------------------|------------------------------|

| Digital time | Time | Supply 1 | Return 1 | Supply 2 | Return 2 | Ambient | Flow 2 | Flow 1 |
|--------------|----------|----------|----------|----------|----------|---------|--------|--------|
| 282.619097 | 14:51:30 | 40.166 | 42.939 | 50.141 | 47.308 | 22.708 | 3.06 | 3.11 |
| 282.619444 | 14:52:00 | 40.164 | 42.944 | 50.144 | 47.307 | 22.711 | 3.06 | 3.11 |
| 282.619792 | 14:52:30 | 40.167 | 42.941 | 50.147 | 47.311 | 22.708 | 3.07 | 3.11 |

Provide Ten Minutes of Stable Data at this condition

Data Set #4 Month/Day/Year (Side 1 = 40C @ 3gpm) (Side 2 = 50C @ .75GPM)

| Digital time | Time | Supply 1 | Return 1 | Supply 2 | Return 2 | Ambient | Flow 2 | Flow 1 |
|--------------|----------|----------|----------|----------|----------|---------|--------|--------|
| 283.645833 | 15:30:00 | 39.999 | 41.299 | 50.189 | 44.161 | 23.055 | 0.75 | 3.09 |
| 283.646181 | 15:30:30 | 40.098 | 41.311 | 50.193 | 44.159 | 23.042 | 0.75 | 3.09 |
| 283.646528 | 15:31:00 | 40.101 | 41.309 | 50.191 | 44.157 | 23.062 | 0.75 | 3.09 |

Provide Ten Minutes of Stable Data at this condition

Data Set #5 Month/Day/Year (HX = 20C @ 3gpm) (Side 2 = 50C @ .75GPM)

| Digital time | Time | Supply 1 | Return 1 | Supply 2 | Return 2 | Ambient | Flow 2 | Flow 1 |
|--------------|----------|----------|----------|----------|----------|---------|--------|--------|
| 284.598264 | 14:21:30 | 20.114 | 24.629 | 50.114 | 30.909 | 22.411 | 0.76 | 3.15 |
| 284.598611 | 14:22:00 | 20.117 | 24.631 | 50.114 | 30.919 | 22.404 | 0.76 | 3.15 |
| 284.598958 | 14:22:30 | 20.114 | 24.629 | 50.114 | 30.911 | 22.409 | 0.76 | 3.15 |

Provide Ten Minutes of Stable Data at this condition

Data Set #6 Month/Day/Year (Side 1 = 30C @ .75gpm) (Side 2 = 50C @ 3GPM)

| Digital time | Time | Supply 1 | Return 1 | Supply 2 | Return 2 | Ambient | Flow 2 | Flow 1 |
|--------------|----------|----------|----------|----------|----------|---------|--------|--------|
| 311.500347 | 12:00:30 | 29.997 | 42.271 | 50.026 | 47.329 | 22.129 | 3.08 | 0.74 |
| 311.500694 | 12:01:00 | 29.999 | 42.267 | 50.019 | 47.332 | 22.133 | 3.08 | 0.74 |
| 311.501042 | 12:01:30 | 29.994 | 42.269 | 50.029 | 47.331 | 22.128 | 3.08 | 0.74 |

Provide Ten Minutes of Stable Data at this condition

Data Set #7 Month/Day/Year (Side 1 = 30C @ 2gpm) (Side 2= 50C @ 2GPM)

| Digital time | Time | Supply 1 | Return 1 | Supply 2 | Return 2 | Ambient | Flow 2 | Flow 1 |
|--------------|----------|----------|----------|----------|----------|---------|--------|--------|
| 317.657292 | 15:46:30 | 29.972 | 37.789 | 50.038 | 42.964 | 22.718 | 2.01 | 2.02 |
| 317.657639 | 15:47:00 | 29.976 | 37.789 | 50.036 | 42.969 | 22.714 | 2.02 | 2.02 |
| 317.657986 | 15:47:30 | 29.974 | 37.792 | 50.044 | 42.966 | 22.714 | 2.01 | 2.02 |