

# *SRC-W & SW series compressors*

## *Performance data*

*(WA-09-03-E)*

|                                                                        |          |
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## 9. Performance data for SRC-W & SW series compressors

The performances reported in the following tables refer to the following working conditions:

- Gas suction overheating: SH=10K;
- Liquid sub-cooling: SC=5K;
- Three-phase electrical net frequency: f=50Hz;
- Nominal voltage: V=400V;
- Refrigerant fluid: R22, R404A e R507;
- Working conditions without ECONomiser circuit.

Key:

- Te: Evaporating temperature [° C];  
 Tc: Condensing temperature [° C];  
 Pf: Refrigerant power [kW];  
 Pa: Absorbed power [kW];

|                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>Attention!</b></p> <ul style="list-style-type: none"> <li>✓ In order to have performance data for conditions different than those as given above, use RefComp selection program LEONARDO (contact RefComp to have the updated software version);</li> <li>✓ Performance data are obtained through measurements made at the suction and discharge connection. See chapter WA-08: “<i>Dimensional drawing and packaging</i>” for connection positions on each models;</li> <li>✓ According to the chapter WA-10: “<i>Application range</i>”, the following tables highlight the working condition which require the additional cooling (see chapter WA-11 “<i>Additional cooling</i>”);</li> <li>✓ For all the refrigerant mixtures the above mentioned temperatures are the DEW ones. This is valid also for those substances characterized by a glide during the change of phase (R404A e R507).</li> </ul> |
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**9.1 SRC-WS compressors performance data with R22 refrigerant**

| SRC-WS-040 |       |      |       |      |       |      |       |      |       |      |      |      |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|
| Tc         | 30    |      | 40    |      | 45    |      | 50    |      | 55    |      | 60   |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf   | Pa   |
| -20        | 59.9  | 22.7 | 52.7  | 28.3 | 48.4  | 31.5 | 43.5  | 34.9 |       |      |      |      |
| -15        | 73.7  | 23.3 | 64.7  | 28.9 | 59.6  | 32.1 | 54.0  | 35.6 | 48.0  | 39.4 |      |      |
| -10        | 89.6  | 24.1 | 79.1  | 29.5 | 73.3  | 32.8 | 67.1  | 36.4 | 60.6  | 40.3 | 53.8 | 44.6 |
| -5         | 107.8 | 24.9 | 96.0  | 30.3 | 89.6  | 33.5 | 82.9  | 37.2 | 76.0  | 41.2 | 68.8 | 45.7 |
| 0          | 128.0 | 25.8 | 115.2 | 31.1 | 108.4 | 34.3 | 101.3 | 38.0 | 94.1  | 42.2 | 86.7 | 46.7 |
| 5          | 150.4 | 26.9 | 136.8 | 31.9 | 129.7 | 35.2 | 122.4 | 38.9 | 115.0 | 43.1 |      |      |
| 10         |       |      | 160.7 | 32.9 | 153.5 | 36.1 | 146.1 | 39.8 | 138.7 | 44.1 |      |      |


| SRC-WS-050 |       |      |       |      |       |      |       |      |       |      |      |      |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|
| Tc         | 30    |      | 40    |      | 45    |      | 50    |      | 55    |      | 60   |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf   | Pa   |
| -20        | 68.5  | 26.0 | 60.3  | 32.4 | 55.3  | 36.0 | 49.8  | 39.9 |       |      |      |      |
| -15        | 84.3  | 26.7 | 74.0  | 33.0 | 68.1  | 36.7 | 61.7  | 40.7 | 54.9  | 45.1 |      |      |
| -10        | 102.5 | 27.5 | 90.5  | 33.8 | 83.8  | 37.5 | 76.7  | 41.6 | 69.3  | 46.1 | 61.5 | 51.0 |
| -5         | 123.2 | 28.5 | 109.7 | 34.6 | 102.4 | 38.3 | 94.8  | 42.5 | 86.8  | 47.2 | 78.7 | 52.2 |
| 0          | 146.3 | 29.6 | 131.7 | 35.5 | 123.9 | 39.2 | 115.9 | 43.5 | 107.6 | 48.2 | 99.2 | 53.4 |
| 5          | 171.9 | 30.8 | 156.4 | 36.5 | 148.3 | 40.2 | 140.0 | 44.5 | 131.5 | 49.3 |      |      |
| 10         |       |      | 183.8 | 37.6 | 175.5 | 41.2 | 167.0 | 45.5 | 158.5 | 50.4 |      |      |

| SRC-WS-060 |       |      |       |      |       |      |       |      |       |      |       |      |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc         | 30    |      | 40    |      | 45    |      | 50    |      | 55    |      | 60    |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -20        | 74.1  | 28.1 | 65.2  | 35.0 | 59.8  | 38.9 | 53.8  | 43.1 |       |      |       |      |
| -15        | 91.2  | 28.9 | 80.1  | 35.7 | 73.7  | 39.7 | 66.8  | 44.0 | 59.4  | 48.7 |       |      |
| -10        | 110.9 | 29.8 | 97.9  | 36.5 | 90.7  | 40.5 | 83.0  | 45.0 | 75.0  | 49.9 | 66.6  | 55.2 |
| -5         | 133.3 | 30.8 | 118.7 | 37.4 | 110.8 | 41.5 | 102.6 | 46.0 | 94.0  | 51.0 | 85.1  | 56.5 |
| 0          | 158.3 | 32.0 | 142.5 | 38.4 | 134.1 | 42.5 | 125.4 | 47.0 | 116.4 | 52.2 | 107.3 | 57.8 |
| 5          | 186.0 | 33.3 | 169.2 | 39.5 | 160.4 | 43.5 | 151.4 | 48.1 | 142.3 | 53.3 |       |      |
| 10         |       |      | 198.8 | 40.7 | 189.8 | 44.6 | 180.7 | 49.2 | 171.5 | 54.5 |       |      |

| SRC-WS-070 |       |      |       |      |       |      |       |      |       |      |       |      |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc         | 30    |      | 40    |      | 45    |      | 50    |      | 55    |      | 60    |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -20        | 90.1  | 34.2 | 79.3  | 42.5 | 72.7  | 47.3 | 65.5  | 52.4 |       |      |       |      |
| -15        | 110.8 | 35.1 | 97.3  | 43.4 | 89.6  | 48.3 | 81.2  | 53.5 | 72.2  | 59.3 |       |      |
| -10        | 134.8 | 36.2 | 119.0 | 44.4 | 110.2 | 49.3 | 100.9 | 54.7 | 91.1  | 60.6 | 80.9  | 67.1 |
| -5         | 162.0 | 37.4 | 144.3 | 45.5 | 134.7 | 50.4 | 124.6 | 55.9 | 114.2 | 62.0 | 103.5 | 68.7 |
| 0          | 192.5 | 38.9 | 173.2 | 46.7 | 163.0 | 51.6 | 152.4 | 57.2 | 141.5 | 63.4 | 130.4 | 70.3 |
| 5          | 226.1 | 40.5 | 205.7 | 48.0 | 195.0 | 52.9 | 184.1 | 58.5 | 172.9 | 64.8 |       |      |
| 10         |       |      | 241.7 | 49.5 | 230.8 | 54.3 | 219.7 | 59.9 | 208.5 | 66.2 |       |      |

| SRC-WS-080 |       |      |       |      |       |      |       |      |       |      |       |      |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc         | 30    |      | 40    |      | 45    |      | 50    |      | 55    |      | 60    |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -20        | 101.5 | 38.6 | 89.3  | 48.0 | 81.9  | 53.4 | 73.7  | 59.1 |       |      |       |      |
| -15        | 124.8 | 39.6 | 109.6 | 49.0 | 100.8 | 54.4 | 91.4  | 60.4 | 81.3  | 66.8 |       |      |
| -10        | 151.8 | 40.8 | 134.0 | 50.0 | 124.1 | 55.5 | 113.6 | 61.6 | 102.6 | 68.3 | 91.1  | 75.6 |
| -5         | 182.5 | 42.2 | 162.5 | 51.2 | 151.7 | 56.8 | 140.4 | 63.0 | 128.6 | 69.8 | 116.5 | 77.3 |
| 0          | 216.7 | 43.8 | 195.1 | 52.6 | 183.5 | 58.1 | 171.6 | 64.4 | 159.4 | 71.4 | 146.9 | 79.1 |
| 5          | 254.6 | 45.6 | 231.6 | 54.1 | 219.6 | 59.6 | 207.3 | 65.9 | 194.8 | 73.0 |       |      |
| 10         |       |      | 272.2 | 55.7 | 259.9 | 61.1 | 247.4 | 67.4 | 234.8 | 74.6 |       |      |

Note:

 Working conditions which require the additional cooling (see application limits)

**9.2 SRC-WL compressors performance data with R22 refrigerant**

| SRC-WL-030 |      |      |      |      |      |      |      |      |      |      |      |      |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Tc         | 20   |      | 30   |      | 40   |      | 45   |      | 50   |      | 55   |      |
| Te         | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   |
| -50        | 14.4 | 12.5 | 12.1 | 14.6 |      |      |      |      |      |      |      |      |
| -40        | 24.7 | 14.3 | 21.6 | 16.5 | 18.6 | 19.4 | 17.2 | 21.2 | 15.8 | 23.2 | 14.4 | 25.4 |
| -30        | 40.7 | 17.0 | 36.7 | 19.2 | 32.3 | 22.1 | 30.0 | 23.8 | 27.6 | 25.6 | 25.1 | 27.7 |
| -20        | 62.3 | 20.4 | 57.3 | 22.9 | 51.5 | 25.8 | 48.3 | 27.5 | 44.8 | 29.3 | 41.2 | 31.2 |
| -10        |      |      | 83.5 | 27.5 | 76.2 | 30.6 | 72.0 | 32.3 | 67.5 | 34.1 | 62.7 | 35.9 |

| SRC-WL-040 |      |      |      |      |      |      |      |      |      |      |      |      |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Tc         | 20   |      | 30   |      | 40   |      | 45   |      | 50   |      | 55   |      |
| Te         | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   |
| -50        | 16.3 | 14.3 | 13.7 | 16.8 |      |      |      |      |      |      |      |      |
| -40        | 28.2 | 16.4 | 24.6 | 18.9 | 21.0 | 22.3 | 19.3 | 24.3 | 17.6 | 26.7 | 15.9 | 29.3 |
| -30        | 46.5 | 19.4 | 41.8 | 22.0 | 36.7 | 25.3 | 34.0 | 27.3 | 31.2 | 29.4 | 28.3 | 31.8 |
| -20        | 71.2 | 23.3 | 65.5 | 26.2 | 58.7 | 29.6 | 55.0 | 31.5 | 51.0 | 33.5 | 46.8 | 35.7 |
| -10        |      |      | 95.4 | 31.5 | 87.0 | 35.0 | 82.3 | 37.0 | 77.1 | 39.0 | 71.6 | 41.1 |

| SRC-WL-050 |      |      |       |      |      |      |      |      |      |      |      |      |
|------------|------|------|-------|------|------|------|------|------|------|------|------|------|
| Tc         | 20   |      | 30    |      | 40   |      | 45   |      | 50   |      | 55   |      |
| Te         | Pf   | Pa   | Pf    | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   |
| -50        | 17.8 | 15.5 | 15.2  | 18.2 |      |      |      |      |      |      |      |      |
| -40        | 30.6 | 17.8 | 26.9  | 20.4 | 23.3 | 24.2 | 21.5 | 26.4 | 19.8 | 29.0 | 18.2 | 31.8 |
| -30        | 50.4 | 21.0 | 45.5  | 23.8 | 40.1 | 27.4 | 37.3 | 29.6 | 34.4 | 31.9 | 31.3 | 34.5 |
| -20        | 77.1 | 25.3 | 71.0  | 28.4 | 63.8 | 32.0 | 59.8 | 34.1 | 55.6 | 36.3 | 51.2 | 38.7 |
| -10        |      |      | 103.3 | 34.0 | 94.3 | 37.9 | 89.2 | 40.0 | 83.6 | 42.2 | 77.7 | 44.5 |

Note:

Working conditions which require the additional cooling (see application limits)

**9.3 SW1H compressors performance data with R22 refrigerant**

| SW1-H-4000 |       |      |       |      |       |      |       |      |       |      |      |      |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|
| Tc         | 30    |      | 40    |      | 45    |      | 50    |      | 55    |      | 60   |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf   | Pa   |
| -20        | 53.4  | 18.4 | 47.0  | 22.9 | 43.1  | 25.5 | 38.8  | 28.3 |       |      |      |      |
| -15        | 65.7  | 18.9 | 57.7  | 23.4 | 53.1  | 26.0 | 48.1  | 28.9 | 42.8  | 32.0 |      |      |
| -10        | 79.9  | 19.5 | 70.5  | 23.9 | 65.3  | 26.6 | 59.8  | 29.5 | 54.0  | 32.7 | 48.0 | 36.2 |
| -5         | 96.0  | 20.2 | 85.5  | 24.5 | 79.8  | 27.2 | 73.9  | 30.1 | 67.7  | 33.4 | 61.3 | 37.0 |
| 0          | 114.1 | 21.0 | 102.6 | 25.2 | 96.6  | 27.8 | 90.3  | 30.8 | 83.9  | 34.2 | 77.3 | 37.9 |
| 5          | 134.0 | 21.8 | 121.9 | 25.9 | 115.6 | 28.5 | 109.1 | 31.5 | 102.5 | 34.9 |      |      |
| 10         |       |      | 143.2 | 26.7 | 136.8 | 29.3 | 130.2 | 32.3 | 123.6 | 35.7 |      |      |

| SW1-H-5000 |       |      |       |      |       |      |       |      |       |      |      |      |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|
| Tc         | 30    |      | 40    |      | 45    |      | 50    |      | 55    |      | 60   |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf   | Pa   |
| -20        | 67.9  | 23.4 | 59.7  | 29.2 | 54.8  | 32.4 | 49.3  | 35.9 |       |      |      |      |
| -15        | 83.5  | 24.1 | 73.3  | 29.8 | 67.5  | 33.1 | 61.1  | 36.7 | 54.4  | 40.6 |      |      |
| -10        | 101.5 | 24.8 | 89.7  | 30.4 | 83.0  | 33.8 | 76.0  | 37.5 | 68.6  | 41.5 | 61.0 | 46.0 |
| -5         | 122.1 | 25.7 | 108.7 | 31.2 | 101.5 | 34.5 | 93.9  | 38.3 | 86.1  | 42.5 | 78.0 | 47.1 |
| 0          | 145.0 | 26.6 | 130.5 | 32.0 | 122.8 | 35.4 | 114.8 | 39.2 | 106.6 | 43.4 | 98.3 | 48.2 |
| 5          | 170.3 | 27.7 | 154.9 | 32.9 | 146.9 | 36.2 | 138.7 | 40.1 | 130.3 | 44.4 |      |      |
| 10         |       |      | 182.1 | 33.9 | 173.8 | 37.2 | 165.5 | 41.0 | 157.1 | 45.4 |      |      |

| SW1-H-6000 |       |      |       |      |       |      |       |      |       |      |       |      |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc         | 30    |      | 40    |      | 45    |      | 50    |      | 55    |      | 60    |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -20        | 79.2  | 27.3 | 69.7  | 34.0 | 63.9  | 37.8 | 57.5  | 41.9 |       |      |       |      |
| -15        | 97.4  | 28.1 | 85.5  | 34.7 | 78.7  | 38.6 | 71.3  | 42.8 | 63.5  | 47.4 |       |      |
| -10        | 118.5 | 28.9 | 104.6 | 35.5 | 96.9  | 39.4 | 88.7  | 43.7 | 80.1  | 48.5 | 71.1  | 53.6 |
| -5         | 142.4 | 29.9 | 126.8 | 36.4 | 118.4 | 40.3 | 109.6 | 44.7 | 100.4 | 49.6 | 91.0  | 54.9 |
| 0          | 169.2 | 31.1 | 152.2 | 37.3 | 143.2 | 41.3 | 133.9 | 45.7 | 124.4 | 50.7 | 114.6 | 56.2 |
| 5          | 198.7 | 32.4 | 180.8 | 38.4 | 171.4 | 42.3 | 161.8 | 46.8 | 152.0 | 51.8 |       |      |
| 10         |       |      | 212.4 | 39.5 | 202.8 | 43.4 | 193.1 | 47.9 | 183.3 | 53.0 |       |      |

| SW1-H-7500 |       |      |       |      |       |      |       |      |       |      |       |      |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc         | 30    |      | 40    |      | 45    |      | 50    |      | 55    |      | 60    |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -20        | 92.8  | 32.0 | 81.6  | 39.9 | 74.9  | 44.3 | 67.4  | 49.1 |       |      |       |      |
| -15        | 114.1 | 32.9 | 100.2 | 40.7 | 92.2  | 45.2 | 83.6  | 50.1 | 74.3  | 55.5 |       |      |
| -10        | 138.8 | 33.9 | 122.5 | 41.6 | 113.5 | 46.2 | 103.9 | 51.2 | 93.8  | 56.8 | 83.3  | 62.8 |
| -5         | 166.8 | 35.1 | 148.6 | 42.6 | 138.7 | 47.2 | 128.3 | 52.4 | 117.6 | 58.1 | 106.5 | 64.3 |
| 0          | 198.1 | 36.4 | 178.3 | 43.7 | 167.8 | 48.3 | 156.9 | 53.5 | 145.7 | 59.4 | 134.3 | 65.8 |
| 5          | 232.8 | 37.9 | 211.7 | 45.0 | 200.8 | 49.5 | 189.5 | 54.8 | 178.1 | 60.7 |       |      |
| 10         |       |      | 248.8 | 46.3 | 237.6 | 50.8 | 226.2 | 56.1 | 214.7 | 62.0 |       |      |

| SW1-H-9000 |       |      |       |      |       |      |       |      |       |      |       |      |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc         | 30    |      | 40    |      | 45    |      | 50    |      | 55    |      | 60    |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -20        | 107.2 | 37.0 | 94.4  | 46.1 | 86.6  | 51.2 | 77.9  | 56.8 |       |      |       |      |
| -15        | 131.9 | 38.0 | 115.9 | 47.0 | 106.6 | 52.3 | 96.6  | 58.0 | 86.0  | 64.2 |       |      |
| -10        | 160.4 | 39.2 | 141.7 | 48.1 | 131.2 | 53.4 | 120.1 | 59.2 | 108.5 | 65.6 | 96.3  | 72.6 |
| -5         | 192.9 | 40.5 | 171.8 | 49.3 | 160.3 | 54.6 | 148.4 | 60.5 | 136.0 | 67.1 | 123.2 | 74.4 |
| 0          | 229.1 | 42.1 | 206.2 | 50.6 | 194.0 | 55.9 | 181.4 | 61.9 | 168.5 | 68.6 | 155.2 | 76.1 |
| 5          | 269.1 | 43.8 | 244.8 | 52.0 | 232.1 | 57.3 | 219.1 | 63.3 | 205.9 | 70.2 |       |      |
| 10         |       |      | 287.7 | 53.6 | 274.7 | 58.7 | 261.5 | 64.8 | 248.2 | 71.7 |       |      |

| SW1-H-10500 |       |      |       |      |       |      |       |      |       |      |       |      |
|-------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc          | 30    |      | 40    |      | 45    |      | 50    |      | 55    |      | 60    |      |
| Te          | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -20         | 129.4 | 44.7 | 113.9 | 55.6 | 104.5 | 61.8 | 94.0  | 68.5 |       |      |       |      |
| -15         | 159.2 | 45.9 | 139.8 | 56.8 | 128.6 | 63.1 | 116.6 | 70.0 | 103.7 | 77.4 |       |      |
| -10         | 193.6 | 47.3 | 170.9 | 58.0 | 158.3 | 64.4 | 144.9 | 71.5 | 130.9 | 79.2 | 116.2 | 87.6 |
| -5          | 232.7 | 48.9 | 207.3 | 59.4 | 193.5 | 65.9 | 179.1 | 73.1 | 164.1 | 81.0 | 148.6 | 89.7 |
| 0           | 276.5 | 50.8 | 248.8 | 61.0 | 234.1 | 67.4 | 218.9 | 74.7 | 203.3 | 82.8 | 187.3 | 91.8 |
| 5           | 324.8 | 52.9 | 295.4 | 62.7 | 280.1 | 69.1 | 264.4 | 76.4 | 248.4 | 84.7 |       |      |
| 10          |       |      | 347.2 | 64.6 | 331.5 | 70.9 | 315.6 | 78.2 | 299.5 | 86.6 |       |      |

| SW1-H-11500 |       |      |       |      |       |      |       |      |       |      |       |       |
|-------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|-------|
| Tc          | 30    |      | 40    |      | 45    |      | 50    |      | 55    |      | 60    |       |
| Te          | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa    |
| -20         | 143.9 | 49.7 | 126.7 | 61.8 | 116.2 | 68.7 | 104.6 | 76.2 |       |      |       |       |
| -15         | 177.0 | 51.0 | 155.5 | 63.1 | 143.0 | 70.1 | 129.6 | 77.8 | 115.3 | 86.1 |       |       |
| -10         | 215.3 | 52.6 | 190.1 | 64.5 | 176.0 | 71.6 | 161.2 | 79.5 | 145.5 | 88.1 | 129.3 | 97.4  |
| -5          | 258.8 | 54.4 | 230.5 | 66.1 | 215.1 | 73.2 | 199.1 | 81.2 | 182.5 | 90.1 | 165.3 | 99.8  |
| 0           | 307.4 | 56.5 | 276.6 | 67.8 | 260.3 | 75.0 | 243.4 | 83.1 | 226.0 | 92.1 | 208.3 | 102.1 |
| 5           | 361.1 | 58.8 | 328.5 | 69.8 | 311.4 | 76.8 | 294.0 | 85.0 | 276.2 | 94.2 |       |       |
| 10          |       |      | 386.0 | 71.9 | 368.6 | 78.8 | 350.9 | 87.0 | 333.0 | 96.2 |       |       |

| SW1-H-12500 |       |      |       |      |       |      |       |      |       |       |       |       |
|-------------|-------|------|-------|------|-------|------|-------|------|-------|-------|-------|-------|
| Tc          | 30    |      | 40    |      | 45    |      | 50    |      | 55    |       | 60    |       |
| Te          | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa    | Pf    | Pa    |
| -20         | 154.3 | 53.3 | 135.8 | 66.3 | 124.6 | 73.7 | 112.1 | 81.7 |       |       |       |       |
| -15         | 189.8 | 54.7 | 166.7 | 67.7 | 153.4 | 75.2 | 139.0 | 83.4 | 123.7 | 92.3  |       |       |
| -10         | 230.9 | 56.4 | 203.8 | 69.2 | 188.8 | 76.8 | 172.8 | 85.2 | 156.1 | 94.5  | 138.6 | 104.5 |
| -5          | 277.5 | 58.3 | 247.1 | 70.9 | 230.7 | 78.5 | 213.5 | 87.1 | 195.7 | 96.6  | 177.3 | 107.0 |
| 0           | 329.6 | 60.5 | 296.6 | 72.8 | 279.1 | 80.4 | 261.0 | 89.1 | 242.4 | 98.8  | 223.4 | 109.5 |
| 5           | 387.2 | 63.1 | 352.3 | 74.8 | 334.0 | 82.4 | 315.3 | 91.1 | 296.2 | 101.0 |       |       |
| 10          |       |      | 413.9 | 77.1 | 395.2 | 84.5 | 376.3 | 93.2 | 357.1 | 103.2 |       |       |

| SW1H14000 |        |       |        |       |        |       |        |       |        |        |
|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|
| Tcond     | 30     |       | 40     |       | 45     |       | 50     |       | 55     |        |
| Tevap     | Pf     | Pa    | Pf     | Pa    | Pf     | Pa    | Pf     | Pa    | Pf     | Pa     |
| -20       | 166,69 | 53,67 | 141,38 | 68,24 | 125,22 | 76,41 | 105,50 | 85,50 | -      | -      |
| -15       | 206,83 | 54,70 | 178,91 | 69,14 | 161,29 | 77,61 | 139,97 | 87,25 | 114,04 | 98,30  |
| -10       | 249,59 | 56,20 | 221,42 | 70,28 | 203,48 | 78,95 | 181,75 | 89,03 | 155,28 | 100,77 |
| -5        | 293,30 | 58,22 | 267,19 | 71,73 | 250,12 | 80,49 | 229,13 | 90,91 | 203,29 | 103,23 |
| 0         | 336,25 | 60,83 | 314,55 | 73,57 | 299,50 | 82,31 | 280,42 | 92,95 | 256,37 | 105,74 |
| 5         | 376,75 | 64,10 | 361,78 | 75,84 | 349,93 | 84,46 | 333,92 | 95,22 | 312,83 | 108,38 |
| 10        | -      | -     | 407,19 | 78,63 | 399,70 | 87,01 | 387,94 | 97,78 | 370,98 | 111,20 |

| SW1H16000 |        |       |        |       |        |       |        |        |        |        |
|-----------|--------|-------|--------|-------|--------|-------|--------|--------|--------|--------|
| Tcond     | 30     |       | 40     |       | 45     |       | 50     |        | 55     |        |
| Tevap     | Pf     | Pa    | Pf     | Pa    | Pf     | Pa    | Pf     | Pa     | Pf     | Pa     |
| -20       | 184,52 | 61,21 | 156,50 | 77,83 | 137,87 | 87,35 | 116,78 | 97,52  | -      | -      |
| -15       | 228,95 | 62,39 | 198,05 | 78,85 | 177,80 | 88,72 | 154,94 | 99,51  | 129,95 | 111,13 |
| -10       | 276,29 | 64,09 | 245,10 | 80,15 | 224,51 | 90,24 | 201,19 | 101,54 | 175,60 | 113,94 |
| -5        | 324,67 | 66,40 | 295,77 | 81,81 | 276,13 | 92,00 | 253,64 | 103,68 | 228,74 | 116,75 |
| 0         | 372,22 | 69,37 | 348,19 | 83,90 | 330,79 | 94,07 | 310,41 | 106,01 | 287,50 | 119,62 |
| 5         | 417,05 | 73,10 | 400,48 | 86,50 | 386,61 | 96,52 | 369,64 | 108,60 | 350,00 | 122,63 |
| 10        | -      | -     | 450,75 | 89,67 | 441,71 | 99,43 | 429,43 | 111,52 | 414,37 | 125,85 |

| SW1H19000 |        |       |        |        |        |        |        |        |        |        |
|-----------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Tcond     | 30     |       | 40     |        | 45     |        | 50     |        | 55     |        |
| Tevap     | Pf     | Pa    | Pf     | Pa     | Pf     | Pa     | Pf     | Pa     | Pf     | Pa     |
| -20       | 211,48 | 70,15 | 179,36 | 89,19  | 158,34 | 99,66  | 133,84 | 111,76 | -      | -      |
| -15       | 262,39 | 71,50 | 226,98 | 90,37  | 204,10 | 101,22 | 177,58 | 114,05 | 147,28 | 129,61 |
| -10       | 316,65 | 73,45 | 280,90 | 91,86  | 257,63 | 102,97 | 230,58 | 116,38 | 199,60 | 132,84 |
| -5        | 372,10 | 76,09 | 338,98 | 93,76  | 316,80 | 104,99 | 290,69 | 118,83 | 260,50 | 136,05 |
| 0         | 426,59 | 79,51 | 399,05 | 96,16  | 379,44 | 107,36 | 355,76 | 121,50 | 327,85 | 139,34 |
| 5         | 477,96 | 83,78 | 458,97 | 99,13  | 443,41 | 110,17 | 423,63 | 124,46 | 399,48 | 142,79 |
| 10        | -      | -     | 516,59 | 102,77 | 506,56 | 113,50 | 492,16 | 127,81 | 473,25 | 146,48 |

| SW1H21000 |        |       |        |        |        |        |        |        |        |        |
|-----------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Tcond     | 30     |       | 40     |        | 45     |        | 50     |        | 55     |        |
| Tevap     | Pf     | Pa    | Pf     | Pa     | Pf     | Pa     | Pf     | Pa     | Pf     | Pa     |
| -20       | 233,04 | 76,53 | 197,64 | 97,31  | 174,95 | 109,24 | 147,49 | 121,93 | -      | -      |
| -15       | 289,15 | 78,00 | 250,12 | 98,59  | 225,36 | 110,95 | 195,68 | 124,42 | 160,01 | 138,78 |
| -10       | 348,94 | 80,13 | 309,54 | 100,22 | 284,36 | 112,86 | 254,09 | 126,96 | 217,66 | 142,30 |
| -5        | 410,04 | 83,01 | 373,54 | 102,29 | 349,56 | 115,06 | 320,32 | 129,64 | 284,77 | 145,80 |
| 0         | 470,08 | 86,74 | 439,74 | 104,90 | 418,59 | 117,65 | 392,03 | 132,55 | 358,98 | 149,39 |
| 5         | 526,70 | 91,40 | 505,77 | 108,15 | 489,08 | 120,71 | 466,82 | 135,78 | 437,92 | 153,15 |
| 10        | -      | -     | 569,26 | 112,12 | 558,67 | 124,35 | 542,34 | 139,44 | 519,21 | 157,18 |

| SW1H24000 |        |       |        |        |        |        |        |        |        |        |
|-----------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Tcond     | 30     |       | 40     |        | 45     |        | 50     |        | 55     |        |
| Tevap     | Pf     | Pa    | Pf     | Pa     | Pf     | Pa     | Pf     | Pa     | Pf     | Pa     |
| -20       | 243,92 | 82,53 | 206,87 | 104,94 | 182,08 | 118,02 | 154,37 | 131,49 | -      | -      |
| -15       | 302,64 | 84,12 | 261,80 | 106,32 | 234,85 | 119,87 | 204,82 | 134,17 | 172,62 | 148,58 |
| -10       | 365,22 | 86,42 | 323,99 | 108,07 | 296,60 | 121,92 | 265,95 | 136,91 | 232,96 | 152,38 |
| -5        | 429,18 | 89,52 | 390,98 | 110,31 | 364,85 | 124,30 | 335,28 | 139,80 | 303,21 | 156,16 |
| 0         | 492,03 | 93,54 | 460,27 | 113,13 | 437,10 | 127,08 | 410,33 | 142,94 | 380,89 | 160,03 |
| 5         | 551,29 | 98,56 | 529,38 | 116,63 | 510,89 | 130,39 | 488,62 | 146,43 | 463,51 | 164,08 |
| 10        | -      | -     | 595,83 | 120,91 | 583,72 | 134,31 | 567,66 | 150,37 | 548,59 | 168,43 |

| SW1H25000 |        |        |        |        |        |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Tcond     | 30     |        | 40     |        | 45     |        | 50     |        | 55     |        |
| Tevap     | Pf     | Pa     | Pf     | Pa     | Pf     | Pa     | Pf     | Pa     | Pf     | Pa     |
| -20       | 290,26 | 96,28  | 246,18 | 122,42 | 217,05 | 136,93 | 183,70 | 153,40 | -      | -      |
| -15       | 360,15 | 98,14  | 311,54 | 124,03 | 279,84 | 139,08 | 243,73 | 156,54 | 203,59 | 177,15 |
| -10       | 434,62 | 100,82 | 385,55 | 126,09 | 353,32 | 141,48 | 316,48 | 159,73 | 275,39 | 181,58 |
| -5        | 510,72 | 104,44 | 465,26 | 128,70 | 434,53 | 144,25 | 398,98 | 163,10 | 358,99 | 186,00 |
| 0         | 585,51 | 109,13 | 547,72 | 131,98 | 520,52 | 147,50 | 488,29 | 166,76 | 451,43 | 190,51 |
| 5         | 656,03 | 114,99 | 629,96 | 136,06 | 608,32 | 151,36 | 581,45 | 170,83 | 549,74 | 195,24 |
| 10        | -      | -      | 709,04 | 141,06 | 694,99 | 155,93 | 675,52 | 175,43 | 650,99 | 200,31 |

| SW1H14000 |       |      |       |      |       |      |       |      |       |       |
|-----------|-------|------|-------|------|-------|------|-------|------|-------|-------|
| Tcond     | 30    |      | 40    |      | 45    |      | 50    |      | 55    |       |
| Tevap     | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa    |
| -20       | 166,7 | 53,7 | 141,4 | 68,2 | 125,2 | 76,4 | 105,5 | 85,5 | -     | -     |
| -15       | 206,8 | 54,7 | 178,9 | 69,1 | 161,3 | 77,6 | 140,0 | 87,3 | 114,0 | 98,3  |
| -10       | 249,6 | 56,2 | 221,4 | 70,3 | 203,5 | 79,0 | 181,7 | 89,0 | 155,3 | 100,8 |
| -5        | 293,3 | 58,2 | 267,2 | 71,7 | 250,1 | 80,5 | 229,1 | 90,9 | 203,3 | 103,2 |
| 0         | 336,3 | 60,8 | 314,5 | 73,6 | 299,5 | 82,3 | 280,4 | 93,0 | 256,4 | 105,7 |
| 5         | 376,7 | 64,1 | 361,8 | 75,8 | 349,9 | 84,5 | 333,9 | 95,2 | 312,8 | 108,4 |
| 10        | -     | -    | 407,2 | 78,6 | 399,7 | 87,0 | 387,9 | 97,8 | 371,0 | 111,2 |

| SW1H16000 |       |      |       |      |       |      |       |       |       |       |
|-----------|-------|------|-------|------|-------|------|-------|-------|-------|-------|
| Tcond     | 30    |      | 40    |      | 45    |      | 50    |       | 55    |       |
| Tevap     | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa    | Pf    | Pa    |
| -20       | 184,5 | 61,2 | 156,5 | 77,8 | 137,9 | 87,3 | 116,8 | 97,5  | -     | -     |
| -15       | 228,9 | 62,4 | 198,1 | 78,9 | 177,8 | 88,7 | 154,9 | 99,5  | 129,9 | 111,1 |
| -10       | 276,3 | 64,1 | 245,1 | 80,2 | 224,5 | 90,2 | 201,2 | 101,5 | 175,6 | 113,9 |
| -5        | 324,7 | 66,4 | 295,8 | 81,8 | 276,1 | 92,0 | 253,6 | 103,7 | 228,7 | 116,7 |
| 0         | 372,2 | 69,4 | 348,2 | 83,9 | 330,8 | 94,1 | 310,4 | 106,0 | 287,5 | 119,6 |
| 5         | 417,0 | 73,1 | 400,5 | 86,5 | 386,6 | 96,5 | 369,6 | 108,6 | 350,0 | 122,6 |
| 10        | -     | -    | 450,7 | 89,7 | 441,7 | 99,4 | 429,4 | 111,5 | 414,4 | 125,8 |

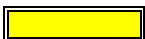
| SW1H19000 |       |      |       |       |       |       |       |       |       |       |
|-----------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Tcond     | 30    |      | 40    |       | 45    |       | 50    |       | 55    |       |
| Tevap     | Pf    | Pa   | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    |
| -20       | 211,5 | 70,1 | 179,4 | 89,2  | 158,3 | 99,7  | 133,8 | 111,8 | -     | -     |
| -15       | 262,4 | 71,5 | 227,0 | 90,4  | 204,1 | 101,2 | 177,6 | 114,0 | 147,3 | 129,6 |
| -10       | 316,6 | 73,5 | 280,9 | 91,9  | 257,6 | 103,0 | 230,6 | 116,4 | 199,6 | 132,8 |
| -5        | 372,1 | 76,1 | 339,0 | 93,8  | 316,8 | 105,0 | 290,7 | 118,8 | 260,5 | 136,1 |
| 0         | 426,6 | 79,5 | 399,1 | 96,2  | 379,4 | 107,4 | 355,8 | 121,5 | 327,8 | 139,3 |
| 5         | 478,0 | 83,8 | 459,0 | 99,1  | 443,4 | 110,2 | 423,6 | 124,5 | 399,5 | 142,8 |
| 10        | -     | -    | 516,6 | 102,8 | 506,6 | 113,5 | 492,2 | 127,8 | 473,2 | 146,5 |

| SW1H21000 |       |      |       |       |       |       |       |       |       |       |
|-----------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Tcond     | 30    |      | 40    |       | 45    |       | 50    |       | 55    |       |
| Tevap     | Pf    | Pa   | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    |
| -20       | 233,0 | 76,5 | 197,6 | 97,3  | 174,9 | 109,2 | 147,5 | 121,9 | -     | -     |
| -15       | 289,1 | 78,0 | 250,1 | 98,6  | 225,4 | 111,0 | 195,7 | 124,4 | 160,0 | 138,8 |
| -10       | 348,9 | 80,1 | 309,5 | 100,2 | 284,4 | 112,9 | 254,1 | 127,0 | 217,7 | 142,3 |
| -5        | 410,0 | 83,0 | 373,5 | 102,3 | 349,6 | 115,1 | 320,3 | 129,6 | 284,8 | 145,8 |
| 0         | 470,1 | 86,7 | 439,7 | 104,9 | 418,6 | 117,6 | 392,0 | 132,5 | 359,0 | 149,4 |
| 5         | 526,7 | 91,4 | 505,8 | 108,1 | 489,1 | 120,7 | 466,8 | 135,8 | 437,9 | 153,2 |
| 10        | -     | -    | 569,3 | 112,1 | 558,7 | 124,3 | 542,3 | 139,4 | 519,2 | 157,2 |

| SW1H24000 |       |      |       |       |       |       |       |       |       |       |
|-----------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Tcond     | 30    |      | 40    |       | 45    |       | 50    |       | 55    |       |
| Tevap     | Pf    | Pa   | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    |
| -20       | 243,9 | 82,5 | 206,9 | 104,9 | 182,1 | 118,0 | 154,4 | 131,5 | -     | -     |
| -15       | 302,6 | 84,1 | 261,8 | 106,3 | 234,9 | 119,9 | 204,8 | 134,2 | 172,6 | 148,6 |
| -10       | 365,2 | 86,4 | 324,0 | 108,1 | 296,6 | 121,9 | 265,9 | 136,9 | 233,0 | 152,4 |
| -5        | 429,2 | 89,5 | 391,0 | 110,3 | 364,8 | 124,3 | 335,3 | 139,8 | 303,2 | 156,2 |
| 0         | 492,0 | 93,5 | 460,3 | 113,1 | 437,1 | 127,1 | 410,3 | 142,9 | 380,9 | 160,0 |
| 5         | 551,3 | 98,6 | 529,4 | 116,6 | 510,9 | 130,4 | 488,6 | 146,4 | 463,5 | 164,1 |
| 10        | -     | -    | 595,8 | 120,9 | 583,7 | 134,3 | 567,7 | 150,4 | 548,6 | 168,4 |

| SW1H25000 |       |       |       |       |       |       |       |       |       |       |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Tcond     | 30    |       | 40    |       | 45    |       | 50    |       | 55    |       |
| Tevap     | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    |
| -20       | 290,3 | 96,3  | 246,2 | 122,4 | 217,0 | 136,9 | 183,7 | 153,4 | -     | -     |
| -15       | 360,1 | 98,1  | 311,5 | 124,0 | 279,8 | 139,1 | 243,7 | 156,5 | 203,6 | 177,2 |
| -10       | 434,6 | 100,8 | 385,6 | 126,1 | 353,3 | 141,5 | 316,5 | 159,7 | 275,4 | 181,6 |
| -5        | 510,7 | 104,4 | 465,3 | 128,7 | 434,5 | 144,3 | 399,0 | 163,1 | 359,0 | 186,0 |
| 0         | 585,5 | 109,1 | 547,7 | 132,0 | 520,5 | 147,5 | 488,3 | 166,8 | 451,4 | 190,5 |
| 5         | 656,0 | 115,0 | 630,0 | 136,1 | 608,3 | 151,4 | 581,5 | 170,8 | 549,7 | 195,2 |
| 10        | -     | -     | 709,0 | 141,1 | 695,0 | 155,9 | 675,5 | 175,4 | 651,0 | 200,3 |

Note:



Working conditions which require the additional cooling (see application limits)

9.4 SW1L compressors performance data with R22 refrigerant

| SW1-L-3000 |      |      |      |      |      |      |      |      |      |      |      |      |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Tc         | 20   |      | 30   |      | 40   |      | 45   |      | 50   |      | 55   |      |
| Te         | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   |
| -50        | 13.1 | 10.7 | 11.0 | 12.5 |      |      |      |      |      |      |      |      |
| -40        | 22.5 | 12.2 | 19.7 | 14.0 | 17.0 | 16.5 | 15.6 | 18.1 | 14.3 | 19.8 | 13.0 | 21.7 |
| -30        | 37.1 | 14.4 | 33.4 | 16.4 | 29.4 | 18.8 | 27.3 | 20.3 | 25.1 | 21.8 | 22.8 | 23.6 |
| -20        | 56.8 | 17.4 | 52.2 | 19.5 | 46.9 | 22.0 | 44.0 | 23.4 | 40.8 | 24.9 | 37.5 | 26.5 |
| -10        |      |      | 76.1 | 23.4 | 69.4 | 26.1 | 65.6 | 27.5 | 61.5 | 29.0 | 57.2 | 30.5 |

| SW1-L-4000 |      |      |      |      |      |      |      |      |      |      |      |      |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Tc         | 20   |      | 30   |      | 40   |      | 45   |      | 50   |      | 55   |      |
| Te         | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   |
| -50        | 16.6 | 13.5 | 14.0 | 15.8 |      |      |      |      |      |      |      |      |
| -40        | 28.6 | 15.5 | 25.0 | 17.8 | 21.6 | 21.0 | 19.9 | 23.0 | 18.2 | 25.1 | 16.6 | 27.6 |
| -30        | 47.1 | 18.4 | 42.5 | 20.8 | 37.4 | 23.9 | 34.7 | 25.7 | 31.9 | 27.8 | 29.0 | 30.0 |
| -20        | 72.2 | 22.1 | 66.4 | 24.8 | 59.6 | 28.0 | 55.9 | 29.8 | 51.9 | 31.7 | 47.7 | 33.7 |
| -10        |      |      | 96.7 | 29.8 | 88.2 | 33.1 | 83.4 | 35.0 | 78.2 | 36.9 | 72.7 | 38.8 |

| SW1-L-5000 |      |      |       |      |       |      |      |      |      |      |      |      |
|------------|------|------|-------|------|-------|------|------|------|------|------|------|------|
| Tc         | 20   |      | 30    |      | 40    |      | 45   |      | 50   |      | 55   |      |
| Te         | Pf   | Pa   | Pf    | Pa   | Pf    | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   |
| -50        | 19.4 | 15.8 | 16.4  | 18.5 |       |      |      |      |      |      |      |      |
| -40        | 33.4 | 18.1 | 29.2  | 20.8 | 25.1  | 24.5 | 23.2 | 26.8 | 21.2 | 29.3 | 19.3 | 32.2 |
| -30        | 55.0 | 21.4 | 49.6  | 24.3 | 43.6  | 27.9 | 40.5 | 30.0 | 37.2 | 32.4 | 33.8 | 35.0 |
| -20        | 84.2 | 25.8 | 77.5  | 28.9 | 69.6  | 32.6 | 65.2 | 34.7 | 60.6 | 37.0 | 55.6 | 39.4 |
| -10        |      |      | 112.8 | 34.7 | 102.9 | 38.7 | 97.3 | 40.8 | 91.3 | 43.0 | 84.8 | 45.3 |

| SW1-L-6500 |      |      |       |      |       |      |       |      |       |      |      |      |
|------------|------|------|-------|------|-------|------|-------|------|-------|------|------|------|
| Tc         | 20   |      | 30    |      | 40    |      | 45    |      | 50    |      | 55   |      |
| Te         | Pf   | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf   | Pa   |
| -50        | 22.7 | 18.5 | 19.2  | 21.7 |       |      |       |      |       |      |      |      |
| -40        | 39.1 | 21.2 | 34.2  | 24.3 | 29.4  | 28.7 | 27.1  | 31.4 | 24.9  | 34.4 | 22.7 | 37.7 |
| -30        | 64.4 | 25.1 | 58.1  | 28.4 | 51.1  | 32.7 | 47.4  | 35.2 | 43.6  | 37.9 | 39.6 | 41.0 |
| -20        | 98.6 | 30.2 | 90.7  | 33.9 | 81.5  | 38.2 | 76.4  | 40.7 | 70.9  | 43.3 | 65.2 | 46.1 |
| -10        |      |      | 132.2 | 40.7 | 120.6 | 45.3 | 114.0 | 47.8 | 106.9 | 50.4 | 99.3 | 53.1 |

| SW1-L-8000 |       |      |       |      |       |      |       |      |       |      |       |      |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc         | 20    |      | 30    |      | 40    |      | 45    |      | 50    |      | 55    |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -50        | 26.3  | 21.4 | 22.2  | 25.0 |       |      |       |      |       |      |       |      |
| -40        | 45.2  | 24.5 | 39.6  | 28.1 | 34.1  | 33.2 | 31.4  | 36.3 | 28.8  | 39.7 | 26.2  | 43.6 |
| -30        | 74.5  | 29.0 | 67.1  | 32.9 | 59.1  | 37.8 | 54.8  | 40.7 | 50.4  | 43.9 | 45.8  | 47.4 |
| -20        | 114.0 | 34.9 | 104.9 | 39.1 | 94.2  | 44.2 | 88.3  | 47.0 | 82.0  | 50.0 | 75.3  | 53.3 |
| -10        |       |      | 152.8 | 47.0 | 139.4 | 52.4 | 131.8 | 55.2 | 123.6 | 58.2 | 114.8 | 61.4 |

| SW1-L-9500 |       |      |       |      |       |      |       |      |       |      |       |      |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc         | 20    |      | 30    |      | 40    |      | 45    |      | 50    |      | 55    |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -50        | 31.7  | 25.8 | 26.8  | 30.2 |       |      |       |      |       |      |       |      |
| -40        | 54.6  | 29.6 | 47.7  | 34.0 | 41.1  | 40.1 | 37.9  | 43.8 | 34.7  | 47.9 | 31.6  | 52.6 |
| -30        | 89.9  | 35.0 | 81.0  | 39.6 | 71.3  | 45.6 | 66.2  | 49.1 | 60.8  | 52.9 | 55.3  | 57.1 |
| -20        | 137.6 | 42.1 | 126.6 | 47.2 | 113.7 | 53.3 | 106.6 | 56.7 | 99.0  | 60.4 | 90.9  | 64.3 |
| -10        |       |      | 184.4 | 56.7 | 168.3 | 63.2 | 159.1 | 66.7 | 149.2 | 70.3 | 138.5 | 74.0 |

| SW1-L-10500 |       |      |       |      |       |      |       |      |       |      |       |      |
|-------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc          | 20    |      | 30    |      | 40    |      | 45    |      | 50    |      | 55    |      |
| Te          | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -50         | 35.2  | 28.7 | 29.7  | 33.6 |       |      |       |      |       |      |       |      |
| -40         | 60.7  | 32.9 | 53.1  | 37.8 | 45.7  | 44.5 | 42.1  | 48.7 | 38.6  | 53.3 | 35.2  | 58.4 |
| -30         | 99.9  | 38.9 | 90.1  | 44.1 | 79.3  | 50.7 | 73.6  | 54.6 | 67.6  | 58.9 | 61.4  | 63.5 |
| -20         | 153.0 | 46.8 | 140.8 | 52.5 | 126.4 | 59.3 | 118.5 | 63.1 | 110.0 | 67.1 | 101.1 | 71.5 |
| -10         |       |      | 205.1 | 63.1 | 187.1 | 70.3 | 176.9 | 74.1 | 165.8 | 78.1 | 154.0 | 82.3 |

| SW1-L-11500 |       |      |       |      |       |      |       |      |       |      |       |      |
|-------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc          | 20    |      | 30    |      | 40    |      | 45    |      | 50    |      | 55    |      |
| Te          | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -50         | 37.8  | 30.8 | 31.9  | 36.0 |       |      |       |      |       |      |       |      |
| -40         | 65.1  | 35.3 | 56.9  | 40.5 | 49.0  | 47.8 | 45.1  | 52.2 | 41.4  | 57.2 | 37.7  | 62.7 |
| -30         | 107.2 | 41.8 | 96.6  | 47.3 | 85.0  | 54.4 | 78.9  | 58.5 | 72.5  | 63.1 | 65.9  | 68.1 |
| -20         | 164.0 | 50.2 | 151.0 | 56.3 | 135.6 | 63.6 | 127.1 | 67.6 | 118.0 | 72.0 | 108.4 | 76.7 |
| -10         |       |      | 219.9 | 67.6 | 200.6 | 75.4 | 189.7 | 79.5 | 177.8 | 83.8 | 165.2 | 88.3 |

| SW1L13000 |       |      |       |      |       |      |       |      |  |
|-----------|-------|------|-------|------|-------|------|-------|------|--|
| Tcond     | 20    |      | 30    |      | 40    |      | 50    |      |  |
| Tevap     | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |  |
| -50       | 46,8  | 33,1 | 31,7  | 39,9 | -     | -    | -     | -    |  |
| -40       | 76,4  | 37,9 | 50,8  | 45,0 | 39,1  | 52,6 | 24,5  | 59,3 |  |
| -30       | 131,5 | 44,3 | 100,5 | 51,3 | 80,6  | 59,9 | 54,9  | 68,5 |  |
| -20       | 200,8 | 53,2 | 169,6 | 59,7 | 146,8 | 68,9 | 115,3 | 79,2 |  |
| -10       | -     | -    | 247,2 | 70,9 | 226,6 | 80,4 | 194,5 | 92,1 |  |

| SW1L15000 |       |      |       |      |       |      |       |       |  |
|-----------|-------|------|-------|------|-------|------|-------|-------|--|
| Tcond     | 20    |      | 30    |      | 40    |      | 50    |       |  |
| Tevap     | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa    |  |
| -50       | 51,8  | 36,6 | 35,1  | 44,2 | -     | -    | -     | -     |  |
| -40       | 84,6  | 42,0 | 56,2  | 49,8 | 43,3  | 58,3 | 27,1  | 65,6  |  |
| -30       | 145,5 | 49,1 | 111,2 | 56,8 | 89,2  | 66,3 | 60,8  | 75,9  |  |
| -20       | 222,3 | 58,8 | 187,8 | 66,0 | 162,5 | 76,2 | 127,6 | 87,7  |  |
| -10       | -     | -    | 273,6 | 78,5 | 250,8 | 89,0 | 215,3 | 101,9 |  |

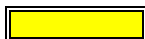
| SW1L17000 |       |      |       |      |       |       |       |       |
|-----------|-------|------|-------|------|-------|-------|-------|-------|
| Tcond     | 20    |      | 30    |      | 40    |       | 50    |       |
| Tevap     | Pf    | Pa   | Pf    | Pa   | Pf    | Pa    | Pf    | Pa    |
| -50       | 59,3  | 41,9 | 40,2  | 50,6 | -     | -     | -     | -     |
| -40       | 97,0  | 48,1 | 64,4  | 57,0 | 49,6  | 66,8  | 31,1  | 75,2  |
| -30       | 166,8 | 56,3 | 127,5 | 65,0 | 102,3 | 76,0  | 69,7  | 86,9  |
| -20       | 254,7 | 67,4 | 215,2 | 75,7 | 186,2 | 87,4  | 146,3 | 100,5 |
| -10       | -     | -    | 313,6 | 90,0 | 287,5 | 102,0 | 246,8 | 116,8 |

| SW1L20000 |       |      |       |      |       |       |       |       |
|-----------|-------|------|-------|------|-------|-------|-------|-------|
| Tcond     | 20    |      | 30    |      | 40    |       | 50    |       |
| Tevap     | Pf    | Pa   | Pf    | Pa   | Pf    | Pa    | Pf    | Pa    |
| -50       | 65,4  | 46,2 | 44,3  | 55,8 | -     | -     | -     | -     |
| -40       | 106,9 | 53,0 | 71,0  | 62,8 | 54,7  | 73,6  | 34,3  | 82,9  |
| -30       | 183,8 | 62,0 | 140,4 | 71,7 | 112,7 | 83,7  | 76,8  | 95,8  |
| -20       | 280,7 | 74,3 | 237,1 | 83,4 | 205,2 | 96,3  | 161,2 | 110,7 |
| -10       | -     | -    | 345,5 | 99,1 | 316,8 | 112,4 | 271,9 | 128,7 |

| SW1L22000 |       |      |       |       |       |       |       |       |
|-----------|-------|------|-------|-------|-------|-------|-------|-------|
| Tcond     | 20    |      | 30    |       | 40    |       | 50    |       |
| Tevap     | Pf    | Pa   | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    |
| -50       | 69,8  | 49,3 | 47,3  | 59,5  | -     | -     | -     | -     |
| -40       | 114,1 | 56,6 | 75,8  | 67,1  | 58,4  | 78,6  | 36,6  | 88,5  |
| -30       | 196,2 | 66,2 | 149,9 | 76,5  | 120,3 | 89,4  | 82,0  | 102,3 |
| -20       | 299,7 | 79,3 | 253,2 | 89,0  | 219,1 | 102,8 | 172,1 | 118,2 |
| -10       | -     | -    | 368,9 | 105,8 | 338,2 | 120,0 | 290,3 | 137,4 |

| SW1L23000 |       |      |       |       |       |       |       |       |
|-----------|-------|------|-------|-------|-------|-------|-------|-------|
| Tcond     | 20    |      | 30    |       | 40    |       | 50    |       |
| Tevap     | Pf    | Pa   | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    |
| -50       | 81,4  | 57,6 | 55,2  | 69,5  | -     | -     | -     | -     |
| -40       | 133,1 | 66,0 | 88,4  | 78,3  | 68,1  | 91,6  | 42,7  | 103,2 |
| -30       | 228,9 | 77,2 | 174,9 | 89,3  | 140,4 | 104,3 | 95,7  | 119,3 |
| -20       | 349,6 | 92,6 | 295,4 | 103,9 | 255,6 | 119,9 | 200,8 | 137,9 |
| -10       | -     | -    | 430,4 | 123,5 | 394,5 | 140,0 | 338,7 | 160,4 |

Note:



Working conditions which require the additional cooling (see application limits)

**9.5 SRC-WS compressors performance data with R404A – R507 refrigerants**

| SRC-WS-040 |       |      |       |      |       |      |       |      |       |      |       |      |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc         | 20    |      | 30    |      | 35    |      | 40    |      | 45    |      | 50    |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -20        | 75.8  | 20.0 | 68.0  | 27.0 | 62.4  | 29.8 | 55.7  | 32.2 | 48.0  | 34.1 | 39.3  | 35.7 |
| -15        | 93.9  | 20.7 | 83.3  | 27.6 | 76.5  | 30.5 | 68.7  | 33.2 | 60.0  | 35.6 | 50.4  | 37.8 |
| -10        | 114.9 | 20.6 | 101.4 | 27.5 | 93.4  | 30.8 | 84.5  | 33.8 | 74.7  | 36.7 | 64.2  | 39.5 |
| -5         | 138.7 | 19.7 | 122.3 | 26.9 | 113.0 | 30.4 | 102.9 | 33.9 | 92.2  | 37.4 | 80.7  | 41.0 |
| 0          |       |      | 146.0 | 25.6 | 135.3 | 29.6 | 124.1 | 33.6 | 112.3 | 37.8 | 99.9  | 42.1 |
| 5          |       |      | 172.3 | 23.7 | 160.4 | 28.1 | 148.0 | 32.8 | 135.0 | 37.7 | 121.7 | 42.9 |

| SRC-WS-050 |       |      |       |      |       |      |       |      |       |      |       |      |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc         | 20    |      | 30    |      | 35    |      | 40    |      | 45    |      | 50    |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -20        | 86.6  | 22.9 | 77.7  | 30.9 | 71.3  | 34.1 | 63.7  | 36.8 | 54.9  | 39.1 | 45.0  | 40.9 |
| -15        | 107.4 | 23.7 | 95.2  | 31.5 | 87.4  | 34.9 | 78.5  | 38.0 | 68.6  | 40.8 | 57.7  | 43.2 |
| -10        | 131.4 | 23.5 | 116.0 | 31.5 | 106.7 | 35.2 | 96.5  | 38.7 | 85.4  | 42.0 | 73.4  | 45.2 |
| -5         | 158.5 | 22.5 | 139.9 | 30.8 | 129.2 | 34.8 | 117.7 | 38.8 | 105.4 | 42.8 | 92.3  | 46.9 |
| 0          |       |      | 166.9 | 29.3 | 154.7 | 33.8 | 141.9 | 38.4 | 128.4 | 43.2 | 114.2 | 48.2 |
| 5          |       |      | 197.0 | 27.1 | 183.4 | 32.2 | 169.2 | 37.5 | 154.4 | 43.1 | 139.2 | 49.1 |

| SRC-WS-060 |       |      |       |      |       |      |       |      |       |      |       |      |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc         | 20    |      | 30    |      | 35    |      | 40    |      | 45    |      | 50    |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -20        | 93.7  | 24.8 | 84.1  | 33.4 | 77.1  | 36.8 | 68.9  | 39.8 | 59.4  | 42.2 | 48.7  | 44.2 |
| -15        | 116.2 | 25.6 | 103.0 | 34.1 | 94.6  | 37.8 | 85.0  | 41.1 | 74.2  | 44.0 | 62.4  | 46.7 |
| -10        | 142.1 | 25.5 | 125.5 | 34.1 | 115.5 | 38.0 | 104.5 | 41.8 | 92.4  | 45.4 | 79.5  | 48.9 |
| -5         | 171.5 | 24.3 | 151.3 | 33.3 | 139.8 | 37.6 | 127.3 | 42.0 | 114.0 | 46.3 | 99.9  | 50.7 |
| 0          |       |      | 180.6 | 31.7 | 167.4 | 36.6 | 153.5 | 41.6 | 138.9 | 46.7 | 123.6 | 52.1 |
| 5          |       |      | 213.2 | 29.3 | 198.4 | 34.8 | 183.0 | 40.6 | 167.0 | 46.7 | 150.5 | 53.1 |

| SRC-WS-070 |       |      |       |      |       |      |       |      |       |      |       |      |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc         | 20    |      | 30    |      | 35    |      | 40    |      | 45    |      | 50    |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -20        | 113.9 | 30.2 | 102.1 | 40.6 | 93.7  | 44.8 | 83.7  | 48.4 | 72.1  | 51.4 | 59.1  | 53.8 |
| -15        | 141.2 | 31.1 | 125.2 | 41.5 | 115.0 | 45.9 | 103.3 | 50.0 | 90.2  | 53.6 | 75.8  | 56.8 |
| -10        | 172.8 | 30.9 | 152.5 | 41.4 | 140.4 | 46.3 | 127.0 | 50.8 | 112.3 | 55.2 | 96.6  | 59.5 |
| -5         | 208.5 | 29.6 | 184.0 | 40.5 | 169.9 | 45.8 | 154.7 | 51.0 | 138.6 | 56.3 | 121.4 | 61.6 |
| 0          |       |      | 219.5 | 38.5 | 203.5 | 44.4 | 186.6 | 50.5 | 168.8 | 56.8 | 150.2 | 63.3 |
| 5          |       |      | 259.1 | 35.6 | 241.2 | 42.3 | 222.5 | 49.3 | 203.1 | 56.7 | 183.0 | 64.6 |

| SRC-WS-080 |       |      |       |      |       |      |       |      |       |      |       |      |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc         | 20    |      | 30    |      | 35    |      | 40    |      | 45    |      | 50    |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -20        | 128.3 | 35.7 | 115.1 | 48.1 | 105.6 | 53.0 | 94.4  | 57.3 | 81.3  | 60.8 | 66.7  | 63.6 |
| -15        | 159.0 | 36.8 | 141.1 | 49.1 | 129.5 | 54.4 | 116.4 | 59.1 | 101.6 | 63.4 | 85.4  | 67.2 |
| -10        | 194.5 | 36.6 | 171.8 | 49.0 | 158.1 | 54.7 | 143.0 | 60.2 | 126.5 | 65.4 | 108.8 | 70.3 |
| -5         | 234.8 | 35.0 | 207.2 | 47.9 | 191.3 | 54.2 | 174.3 | 60.4 | 156.0 | 66.6 | 136.7 | 72.9 |
| 0          |       |      | 247.2 | 45.6 | 229.2 | 52.6 | 210.1 | 59.8 | 190.1 | 67.2 | 169.1 | 75.0 |
| 5          |       |      | 291.8 | 42.2 | 271.6 | 50.0 | 250.5 | 58.3 | 228.7 | 67.1 | 206.1 | 76.4 |

Note:



Working conditions which require the additional cooling (see application limits)

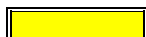
**9.6 SRC-WL compressors performance data with R404A – R507 refrigerants**

| SRC-WL-030 |      |      |      |      |      |      |      |      |      |      |      |      |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Tc         | 20   |      | 30   |      | 35   |      | 40   |      | 45   |      | 50   |      |
| Te         | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   |
| -50        | 16.0 | 14.4 | 12.9 | 16.8 | 11.2 | 18.3 |      |      |      |      |      |      |
| -40        | 28.8 | 17.0 | 23.6 | 19.8 | 20.9 | 21.6 | 18.2 | 23.7 | 15.4 | 26.0 | 12.7 | 28.6 |
| -30        | 47.9 | 19.4 | 40.2 | 22.6 | 36.2 | 24.6 | 32.3 | 26.8 | 28.3 | 29.3 | 24.2 | 32.1 |
| -20        | 73.4 | 21.6 | 62.7 | 25.2 | 57.3 | 27.3 | 51.9 | 29.7 | 46.4 | 32.3 | 40.8 | 35.2 |
| -15        |      |      | 76.2 | 26.3 | 70.0 | 28.5 | 63.8 | 31.0 | 57.4 | 33.6 | 51.1 | 36.6 |

| SRC-WL-040 |      |      |      |      |      |      |      |      |      |      |      |      |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Tc         | 20   |      | 30   |      | 35   |      | 40   |      | 45   |      | 50   |      |
| Te         | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   |
| -50        | 18.3 | 16.5 | 14.7 | 19.2 | 12.8 | 21.0 |      |      |      |      |      |      |
| -40        | 32.9 | 19.4 | 26.9 | 22.7 | 23.9 | 24.7 | 20.8 | 27.1 | 17.6 | 29.7 | 14.5 | 32.7 |
| -30        | 54.8 | 22.2 | 45.9 | 25.9 | 41.4 | 28.1 | 36.9 | 30.7 | 32.3 | 33.5 | 27.7 | 36.7 |
| -20        | 83.9 | 24.7 | 71.7 | 28.8 | 65.5 | 31.2 | 59.3 | 33.9 | 53.0 | 36.9 | 46.7 | 40.2 |
| -15        |      |      | 87.1 | 30.1 | 80.0 | 32.6 | 72.9 | 35.4 | 65.7 | 38.5 | 58.4 | 41.8 |

| SRC-WL-050 |      |      |      |      |      |      |      |      |      |      |      |      |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Tc         | 20   |      | 30   |      | 35   |      | 40   |      | 45   |      | 50   |      |
| Te         | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   |
| -50        | 19.8 | 17.9 | 15.9 | 20.8 | 13.8 | 22.7 |      |      |      |      |      |      |
| -40        | 35.6 | 21.0 | 29.1 | 24.5 | 25.8 | 26.8 | 22.4 | 29.3 | 19.0 | 32.2 | 15.6 | 35.4 |
| -30        | 59.2 | 24.0 | 49.7 | 28.0 | 44.8 | 30.5 | 39.9 | 33.2 | 34.9 | 36.3 | 29.9 | 39.7 |
| -20        | 90.7 | 26.7 | 77.5 | 31.1 | 70.9 | 33.8 | 64.1 | 36.7 | 57.3 | 40.0 | 50.5 | 43.6 |
| -15        |      |      | 94.3 | 32.6 | 86.6 | 35.3 | 78.8 | 38.3 | 71.0 | 41.6 | 63.1 | 45.3 |

Note:



Working conditions which require the additional cooling (see application limits)

**9.7 SW1H compressors performance data with R404A – R507 refrigerants**

| <b>SW1-H-4000</b> |           |           |           |           |           |           |           |           |           |           |           |           |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Tc</b>         | 20        |           | 30        |           | 35        |           | 40        |           | 45        |           | 50        |           |
| <b>Te</b>         | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> |
| -20               | 63.9      | 16.7      | 57.3      | 22.5      | 52.6      | 24.9      | 47.0      | 26.8      | 40.5      | 28.5      | 33.2      | 29.8      |
| -15               | 79.2      | 17.3      | 70.3      | 23.0      | 64.5      | 25.5      | 58.0      | 27.7      | 50.6      | 29.7      | 42.5      | 31.5      |
| -10               | 96.9      | 17.2      | 85.6      | 23.0      | 78.8      | 25.7      | 71.2      | 28.2      | 63.0      | 30.6      | 54.2      | 33.0      |
| -5                | 117.0     | 16.4      | 103.2     | 22.4      | 95.3      | 25.4      | 86.8      | 28.3      | 77.7      | 31.2      | 68.1      | 34.2      |
| 0                 |           | 15.0      | 123.1     | 21.4      | 114.2     | 24.7      | 104.7     | 28.0      | 94.7      | 31.5      | 84.3      | 35.1      |
| 5                 |           | 12.9      | 145.4     | 19.8      | 135.3     | 23.5      | 124.8     | 27.4      | 113.9     | 31.5      | 102.7     | 35.8      |

| <b>SW1-H-5000</b> |           |           |           |           |           |           |           |           |           |           |           |           |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Tc</b>         | 20        |           | 30        |           | 35        |           | 40        |           | 45        |           | 50        |           |
| <b>Te</b>         | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> |
| -20               | 81.2      | 21.3      | 72.9      | 28.6      | 66.9      | 31.6      | 59.7      | 34.1      | 51.5      | 36.2      | 42.2      | 37.9      |
| -15               | 100.7     | 22.0      | 89.3      | 29.3      | 82.0      | 32.4      | 73.7      | 35.2      | 64.3      | 37.8      | 54.1      | 40.1      |
| -10               | 123.2     | 21.8      | 108.8     | 29.2      | 100.1     | 32.6      | 90.5      | 35.9      | 80.1      | 39.0      | 68.9      | 41.9      |
| -5                | 148.7     | 20.9      | 131.2     | 28.5      | 121.2     | 32.3      | 110.4     | 36.0      | 98.8      | 39.7      | 86.6      | 43.5      |
| 0                 |           |           | 156.5     | 27.2      | 145.1     | 31.3      | 133.1     | 35.6      | 120.4     | 40.1      | 107.1     | 44.7      |
| 5                 |           |           | 184.8     | 25.1      | 172.0     | 29.8      | 158.6     | 34.8      | 144.8     | 40.0      | 130.5     | 45.5      |

| <b>SW1-H-6000</b> |           |           |           |           |           |           |           |           |           |           |           |           |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Tc</b>         | 20        |           | 30        |           | 35        |           | 40        |           | 45        |           | 50        |           |
| <b>Te</b>         | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> |
| -20               | 94.8      | 24.8      | 85.0      | 33.4      | 78.0      | 36.9      | 69.7      | 39.8      | 60.1      | 42.3      | 49.2      | 44.2      |
| -15               | 117.5     | 25.6      | 104.2     | 34.1      | 95.7      | 37.8      | 85.9      | 41.1      | 75.1      | 44.1      | 63.1      | 46.7      |
| -10               | 143.7     | 25.5      | 126.9     | 34.1      | 116.8     | 38.1      | 105.6     | 41.8      | 93.5      | 45.4      | 80.4      | 48.9      |
| -5                | 173.5     | 24.4      | 153.0     | 33.3      | 141.4     | 37.7      | 128.7     | 42.0      | 115.3     | 46.3      | 101.0     | 50.7      |
| 0                 |           |           | 182.6     | 31.7      | 169.3     | 36.6      | 155.2     | 41.6      | 140.4     | 46.8      | 125.0     | 52.1      |
| 5                 |           |           | 215.6     | 29.3      | 200.7     | 34.8      | 185.1     | 40.6      | 168.9     | 46.7      | 152.3     | 53.1      |

| <b>SW1-H-7500</b> |           |           |           |           |           |           |           |           |           |           |           |           |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Tc</b>         | 20        |           | 30        |           | 35        |           | 40        |           | 45        |           | 50        |           |
| <b>Te</b>         | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> |
| -20               | 111.0     | 29.1      | 99.6      | 39.1      | 91.4      | 43.2      | 81.6      | 46.6      | 70.4      | 49.5      | 57.6      | 51.8      |
| -15               | 137.6     | 30.0      | 122.1     | 40.0      | 112.1     | 44.3      | 100.7     | 48.1      | 87.9      | 51.6      | 73.9      | 54.8      |
| -10               | 168.3     | 29.8      | 148.6     | 39.9      | 136.8     | 44.6      | 123.7     | 49.0      | 109.5     | 53.2      | 94.1      | 57.3      |
| -5                | 203.2     | 28.5      | 179.3     | 39.0      | 165.6     | 44.1      | 150.8     | 49.2      | 135.0     | 54.3      | 118.3     | 59.4      |
| 0                 |           |           | 213.9     | 37.1      | 198.3     | 42.8      | 181.8     | 48.7      | 164.5     | 54.8      | 146.4     | 61.0      |
| 5                 |           |           | 252.5     | 34.4      | 235.0     | 40.8      | 216.8     | 47.5      | 197.9     | 54.7      | 178.3     | 62.2      |

| <b>SW1-H-9000</b> |           |           |           |           |           |           |           |           |           |           |           |           |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Tc</b>         | 20        |           | 30        |           | 35        |           | 40        |           | 45        |           | 50        |           |
| <b>Te</b>         | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> | <b>Pf</b> | <b>Pa</b> |
| -20               | 128.3     | 33.6      | 115.1     | 45.3      | 105.6     | 49.9      | 94.4      | 53.9      | 81.3      | 57.2      | 66.6      | 59.9      |
| -15               | 159.1     | 34.7      | 141.1     | 46.2      | 129.6     | 51.2      | 116.4     | 55.7      | 101.7     | 59.7      | 85.4      | 63.3      |
| -10               | 194.6     | 34.5      | 171.9     | 46.2      | 158.2     | 51.5      | 143.1     | 56.7      | 126.6     | 61.5      | 108.8     | 66.2      |
| -5                | 234.9     | 33.0      | 207.3     | 45.1      | 191.4     | 51.0      | 174.4     | 56.9      | 156.1     | 62.8      | 136.8     | 68.7      |
| 0                 |           |           | 247.3     | 42.9      | 229.3     | 49.5      | 210.2     | 56.3      | 190.2     | 63.3      | 169.2     | 70.6      |
| 5                 |           |           | 292.0     | 39.7      | 271.7     | 47.1      | 250.7     | 54.9      | 228.8     | 63.2      | 206.2     | 71.9      |

| SW1-H-10500 |       |      |       |      |       |      |       |      |       |      |       |      |
|-------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc          | 20    |      | 30    |      | 35    |      | 40    |      | 45    |      | 50    |      |
| Te          | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -20         | 154.8 | 40.6 | 138.9 | 54.6 | 127.5 | 60.3 | 113.8 | 65.1 | 98.1  | 69.1 | 80.3  | 72.3 |
| -15         | 192.0 | 41.9 | 170.3 | 55.8 | 156.3 | 61.8 | 140.4 | 67.2 | 122.6 | 72.0 | 103.0 | 76.4 |
| -10         | 234.9 | 41.6 | 207.4 | 55.7 | 190.9 | 62.2 | 172.6 | 68.4 | 152.7 | 74.3 | 131.3 | 80.0 |
| -5          | 283.5 | 39.8 | 250.1 | 54.4 | 231.0 | 61.5 | 210.4 | 68.6 | 188.4 | 75.7 | 165.0 | 82.9 |
| 0           |       |      | 298.4 | 51.8 | 276.7 | 59.8 | 253.7 | 68.0 | 229.5 | 76.4 | 204.2 | 85.2 |
| 5           |       |      | 352.3 | 47.9 | 327.9 | 56.9 | 302.5 | 66.3 | 276.1 | 76.3 | 248.8 | 86.8 |

| SW1-H-11500 |       |      |       |      |       |      |       |      |       |      |       |      |
|-------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc          | 20    |      | 30    |      | 35    |      | 40    |      | 45    |      | 50    |      |
| Te          | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -20         | 172.2 | 45.1 | 154.5 | 60.7 | 141.8 | 67.0 | 126.7 | 72.4 | 109.2 | 76.8 | 89.5  | 80.4 |
| -15         | 213.5 | 46.5 | 189.4 | 62.0 | 173.9 | 68.7 | 156.2 | 74.7 | 136.4 | 80.1 | 114.7 | 85.0 |
| -10         | 261.2 | 46.3 | 230.6 | 61.9 | 212.3 | 69.2 | 192.0 | 76.0 | 169.9 | 82.6 | 146.1 | 88.9 |
| -5          | 315.2 | 44.3 | 278.1 | 60.5 | 256.9 | 68.4 | 234.0 | 76.3 | 209.5 | 84.2 | 183.5 | 92.1 |
| 0           |       |      | 331.8 | 57.6 | 307.7 | 66.5 | 282.1 | 75.5 | 255.2 | 84.9 | 227.1 | 94.7 |
| 5           |       |      | 391.8 | 53.3 | 364.6 | 63.2 | 336.4 | 73.7 | 307.0 | 84.8 | 276.7 | 96.5 |

| SW1-H-12500 |       |      |       |      |       |      |       |      |       |      |       |       |
|-------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|-------|
| Tc          | 20    |      | 30    |      | 35    |      | 40    |      | 45    |      | 50    |       |
| Te          | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa    |
| -20         | 184.6 | 48.3 | 165.6 | 65.1 | 152.0 | 71.9 | 135.7 | 77.6 | 117.0 | 82.3 | 95.8  | 86.2  |
| -15         | 228.9 | 49.9 | 203.0 | 66.5 | 186.4 | 73.6 | 167.4 | 80.1 | 146.2 | 85.9 | 122.9 | 91.1  |
| -10         | 280.1 | 49.6 | 247.3 | 66.4 | 227.6 | 74.2 | 205.8 | 81.5 | 182.1 | 88.6 | 156.6 | 95.3  |
| -5          | 338.0 | 47.5 | 298.2 | 64.9 | 275.4 | 73.4 | 250.9 | 81.8 | 224.6 | 90.3 | 196.8 | 98.8  |
| 0           |       |      | 355.8 | 61.8 | 329.9 | 71.3 | 302.5 | 81.0 | 273.7 | 91.1 | 243.5 | 101.5 |
| 5           |       |      | 420.1 | 57.1 | 391.0 | 67.8 | 360.7 | 79.0 | 329.2 | 90.9 | 296.7 | 103.5 |

| SW1H14000 |       |      |       |      |       |       |       |       |  |
|-----------|-------|------|-------|------|-------|-------|-------|-------|--|
| Tcond     | 20    |      | 30    |      | 40    |       | 50    |       |  |
| Tevap     | Pf    | Pa   | Pf    | Pa   | Pf    | Pa    | Pf    | Pa    |  |
| -20       | 193,7 | 61,4 | 174,6 | 74,4 | 150,0 | 85,1  | 111,7 | 91,4  |  |
| -15       | 242,1 | 67,5 | 216,6 | 79,7 | 186,6 | 90,7  | 144,1 | 98,3  |  |
| -10       | 299,7 | 71,4 | 267,7 | 84,0 | 232,3 | 96,3  | 185,3 | 106,1 |  |
| -5        | 367,2 | 73,2 | 328,6 | 87,0 | 287,7 | 101,6 | 236,1 | 114,6 |  |
| 0         | -     | -    | 399,8 | 88,7 | 353,2 | 106,4 | 297,1 | 123,6 |  |
| 5         | -     | -    | 482,0 | 88,7 | 429,7 | 110,7 | 368,8 | 133,0 |  |

| SW1H16000 |       |      |       |      |       |       |       |       |  |
|-----------|-------|------|-------|------|-------|-------|-------|-------|--|
| Tcond     | 20    |      | 30    |      | 40    |       | 50    |       |  |
| Tevap     | Pf    | Pa   | Pf    | Pa   | Pf    | Pa    | Pf    | Pa    |  |
| -20       | 204,4 | 70,7 | 193,2 | 82,3 | 166,0 | 94,2  | 123,6 | 101,1 |  |
| -15       | 257,9 | 77,4 | 239,7 | 88,2 | 206,6 | 100,4 | 159,5 | 108,8 |  |
| -10       | 321,7 | 81,8 | 296,3 | 93,0 | 257,2 | 106,6 | 205,2 | 117,4 |  |
| -5        | 396,4 | 83,7 | 363,7 | 96,3 | 318,4 | 112,4 | 261,4 | 126,8 |  |
| 0         | -     | -    | 442,6 | 98,1 | 391,0 | 117,8 | 328,9 | 136,8 |  |
| 5         | -     | -    | 533,6 | 98,2 | 475,6 | 122,5 | 408,2 | 147,3 |  |

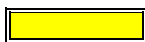
| SW1H19000 |       |      |       |       |       |       |       |       |
|-----------|-------|------|-------|-------|-------|-------|-------|-------|
| Tcond     | 20    |      | 30    |       | 40    |       | 50    |       |
| Tevap     | Pf    | Pa   | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    |
| -20       | 244,3 | 75,4 | 221,5 | 94,3  | 190,3 | 107,9 | 141,7 | 115,9 |
| -15       | 305,7 | 83,1 | 274,8 | 101,1 | 236,8 | 115,1 | 182,8 | 124,7 |
| -10       | 378,8 | 88,1 | 339,6 | 106,6 | 294,8 | 122,1 | 235,1 | 134,6 |
| -5        | 464,4 | 90,4 | 416,9 | 110,4 | 364,9 | 128,9 | 299,6 | 145,3 |
| 0         | -     | -    | 507,2 | 112,5 | 448,1 | 135,0 | 376,9 | 156,8 |
| 5         | -     | -    | 611,5 | 112,6 | 545,1 | 140,4 | 467,9 | 168,8 |

| SW1H21000 |       |       |       |       |       |       |       |       |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Tcond     | 20    |       | 30    |       | 40    |       | 50    |       |
| Tevap     | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    |
| -20       | 267,1 | 86,0  | 244,0 | 104,0 | 209,7 | 118,9 | 156,1 | 127,7 |
| -15       | 334,7 | 94,5  | 302,8 | 111,4 | 260,9 | 126,8 | 201,4 | 137,4 |
| -10       | 415,3 | 100,0 | 374,3 | 117,4 | 324,8 | 134,6 | 259,1 | 148,3 |
| -5        | 509,6 | 102,5 | 459,4 | 121,7 | 402,1 | 142,0 | 330,1 | 160,2 |
| 0         | -     | -     | 559,0 | 124,0 | 493,8 | 148,8 | 415,3 | 172,8 |
| 5         | -     | -     | 673,9 | 124,0 | 600,7 | 154,7 | 515,6 | 186,0 |

| SW1H24000 |       |       |       |       |       |       |       |       |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Tcond     | 20    |       | 30    |       | 40    |       | 50    |       |
| Tevap     | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    |
| -20       | 263,1 | 91,7  | 260,5 | 111,0 | 223,8 | 127,0 | 166,7 | 136,4 |
| -15       | 335,3 | 100,7 | 323,2 | 119,0 | 278,6 | 135,4 | 215,0 | 146,7 |
| -10       | 421,3 | 106,6 | 399,6 | 125,4 | 346,8 | 143,7 | 276,6 | 158,3 |
| -5        | 522,1 | 109,3 | 490,4 | 129,9 | 429,3 | 151,6 | 352,5 | 171,0 |
| 0         | -     | -     | 596,8 | 132,3 | 527,2 | 158,8 | 443,4 | 184,5 |
| 5         | -     | -     | 719,5 | 132,4 | 641,3 | 165,2 | 550,4 | 198,6 |

| SW1H25000 |       |       |       |       |       |       |       |       |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Tcond     | 20    |       | 30    |       | 40    |       | 50    |       |
| Tevap     | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    |
| -20       | 317,4 | 110,2 | 304,0 | 129,5 | 261,2 | 148,2 | 194,5 | 159,1 |
| -15       | 401,6 | 120,7 | 377,1 | 138,8 | 325,0 | 158,0 | 250,9 | 171,1 |
| -10       | 502,0 | 127,6 | 466,2 | 146,3 | 404,6 | 167,7 | 322,7 | 184,7 |
| -5        | 619,5 | 130,7 | 572,2 | 151,5 | 500,9 | 176,9 | 411,2 | 199,5 |
| 0         | -     | -     | 696,2 | 154,4 | 615,1 | 185,3 | 517,3 | 215,2 |
| 5         | -     | -     | 839,4 | 154,5 | 748,2 | 192,7 | 642,2 | 231,6 |

Note:



Working conditions which require the additional cooling (see application limits)

**9.8 SW1L compressors performance data with R404A – R507 refrigerants**

| SW1-L-3000 |      |      |      |      |      |      |      |      |      |      |      |      |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Tc         | 20   |      | 30   |      | 35   |      | 40   |      | 45   |      | 50   |      |
| Te         | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   |
| -50        | 13.6 | 11.7 | 10.9 | 13.6 | 9.5  | 14.9 |      |      |      |      |      |      |
| -40        | 24.3 | 13.8 | 19.9 | 16.1 | 17.6 | 17.5 | 15.4 | 19.2 | 13.1 | 21.1 | 10.7 | 23.2 |
| -30        | 40.4 | 15.7 | 33.9 | 18.4 | 30.6 | 20.0 | 27.2 | 21.8 | 23.9 | 23.8 | 20.4 | 26.0 |
| -20        | 61.9 | 17.5 | 52.9 | 20.4 | 48.4 | 22.1 | 43.8 | 24.1 | 39.1 | 26.2 | 34.5 | 28.5 |
| -15        |      |      | 64.3 | 21.3 | 59.1 | 23.1 | 53.8 | 25.1 | 48.5 | 27.3 | 43.1 | 29.7 |

| SW1-L-4000 |      |      |      |      |      |      |      |      |      |      |      |      |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Tc         | 20   |      | 30   |      | 35   |      | 40   |      | 45   |      | 50   |      |
| Te         | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   |
| -50        | 17.2 | 14.9 | 13.8 | 17.3 | 12.1 | 18.9 |      |      |      |      |      |      |
| -40        | 30.9 | 17.5 | 25.3 | 20.4 | 22.4 | 22.3 | 19.5 | 24.4 | 16.6 | 26.8 | 13.6 | 29.5 |
| -30        | 51.4 | 20.0 | 43.1 | 23.3 | 38.9 | 25.4 | 34.6 | 27.7 | 30.3 | 30.3 | 26.0 | 33.1 |
| -20        | 78.7 | 22.3 | 67.2 | 25.9 | 61.5 | 28.1 | 55.6 | 30.6 | 49.8 | 33.3 | 43.8 | 36.3 |
| -15        |      |      | 81.7 | 27.1 | 75.1 | 29.4 | 68.4 | 31.9 | 61.6 | 34.7 | 54.8 | 37.7 |

| SW1-L-5000 |      |      |      |      |      |      |      |      |      |      |      |      |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Tc         | 20   |      | 30   |      | 35   |      | 40   |      | 45   |      | 50   |      |
| Te         | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   |
| -50        | 20.1 | 17.4 | 16.1 | 20.2 | 14.1 | 22.0 |      |      |      |      |      |      |
| -40        | 36.1 | 20.4 | 29.5 | 23.8 | 26.2 | 26.0 | 22.8 | 28.5 | 19.4 | 31.3 | 15.9 | 34.4 |
| -30        | 59.9 | 23.3 | 50.3 | 27.2 | 45.4 | 29.6 | 40.4 | 32.3 | 35.4 | 35.3 | 30.3 | 38.6 |
| -20        | 91.8 | 26.0 | 78.5 | 30.3 | 71.7 | 32.8 | 64.9 | 35.7 | 58.0 | 38.9 | 51.1 | 42.3 |
| -15        |      |      | 95.3 | 31.6 | 87.6 | 34.3 | 79.8 | 37.2 | 71.9 | 40.5 | 63.9 | 44.0 |

| SW1-L-6500 |       |      |       |      |       |      |      |      |      |      |      |      |
|------------|-------|------|-------|------|-------|------|------|------|------|------|------|------|
| Tc         | 20    |      | 30    |      | 35    |      | 40   |      | 45   |      | 50   |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf   | Pa   | Pf   | Pa   | Pf   | Pa   |
| -50        | 23.5  | 20.3 | 18.9  | 23.6 | 16.5  | 25.8 |      |      |      |      |      |      |
| -40        | 42.2  | 24.0 | 34.6  | 27.9 | 30.7  | 30.4 | 26.7 | 33.3 | 22.7 | 36.6 | 18.6 | 40.3 |
| -30        | 70.2  | 27.3 | 58.9  | 31.9 | 53.1  | 34.7 | 47.3 | 37.8 | 41.5 | 41.3 | 35.5 | 45.2 |
| -20        | 107.5 | 30.4 | 91.9  | 35.4 | 84.0  | 38.5 | 76.0 | 41.8 | 68.0 | 45.5 | 59.9 | 49.6 |
| -15        |       |      | 111.7 | 37.1 | 102.6 | 40.2 | 93.4 | 43.6 | 84.2 | 47.4 | 74.8 | 51.5 |

| SW1-L-8000 |       |      |       |      |       |      |       |      |      |      |      |      |
|------------|-------|------|-------|------|-------|------|-------|------|------|------|------|------|
| Tc         | 20    |      | 30    |      | 35    |      | 40    |      | 45   |      | 50   |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf   | Pa   | Pf   | Pa   |
| -50        | 27.2  | 23.5 | 21.9  | 27.3 | 19.1  | 29.9 |       |      |      |      |      |      |
| -40        | 48.8  | 27.7 | 40.0  | 32.3 | 35.4  | 35.2 | 30.9  | 38.6 | 26.2 | 42.3 | 21.5 | 46.6 |
| -30        | 81.2  | 31.6 | 68.1  | 36.9 | 61.4  | 40.1 | 54.7  | 43.7 | 47.9 | 47.8 | 41.0 | 52.3 |
| -20        | 124.3 | 35.2 | 106.2 | 41.0 | 97.1  | 44.5 | 87.9  | 48.3 | 78.6 | 52.6 | 69.2 | 57.3 |
| -15        |       |      | 129.1 | 42.9 | 118.6 | 46.4 | 108.0 | 50.4 | 97.3 | 54.8 | 86.5 | 59.6 |

| SW1-L-9500 |       |      |       |      |       |      |       |      |       |      |       |      |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc         | 20    |      | 30    |      | 35    |      | 40    |      | 45    |      | 50    |      |
| Te         | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -50        | 32.7  | 28.3 | 26.2  | 32.9 | 22.9  | 36.0 |       |      |       |      |       |      |
| -40        | 58.9  | 33.4 | 48.1  | 38.9 | 42.6  | 42.4 | 37.1  | 46.5 | 31.5  | 51.1 | 25.7  | 56.2 |
| -30        | 97.9  | 38.1 | 82.1  | 44.5 | 74.0  | 48.4 | 65.9  | 52.7 | 57.7  | 57.7 | 49.4  | 63.1 |
| -20        | 150.0 | 42.4 | 128.2 | 49.4 | 117.2 | 53.6 | 106.0 | 58.3 | 94.8  | 63.5 | 83.4  | 69.2 |
| -15        |       |      | 155.8 | 51.7 | 143.1 | 56.0 | 130.3 | 60.8 | 117.4 | 66.1 | 104.4 | 71.9 |

| SW1-L-10500 |       |      |       |      |       |      |       |      |       |      |       |      |
|-------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc          | 20    |      | 30    |      | 35    |      | 40    |      | 45    |      | 50    |      |
| Te          | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -50         | 36.3  | 31.5 | 29.0  | 36.6 | 25.3  | 40.0 | 21.6  | 44.0 | 17.7  | 48.7 | 13.8  | 53.9 |
| -40         | 65.4  | 37.1 | 53.4  | 43.3 | 47.4  | 47.2 | 41.2  | 51.7 | 35.0  | 56.8 | 28.6  | 62.5 |
| -30         | 108.8 | 42.4 | 91.2  | 49.4 | 82.3  | 53.8 | 73.3  | 58.7 | 64.2  | 64.1 | 55.0  | 70.2 |
| -20         | 166.7 | 47.2 | 142.5 | 55.0 | 130.3 | 59.7 | 117.9 | 64.9 | 105.5 | 70.6 | 92.8  | 76.9 |
| -15         |       |      | 173.2 | 57.5 | 159.1 | 62.3 | 144.9 | 67.6 | 130.6 | 73.5 | 116.1 | 79.9 |

| SW1-L-11500 |       |      |       |      |       |      |       |      |       |      |       |      |
|-------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Tc          | 20    |      | 30    |      | 35    |      | 40    |      | 45    |      | 50    |      |
| Te          | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -50         | 39.2  | 33.8 | 31.4  | 39.3 | 27.5  | 43.0 | 23.5  | 47.3 | 19.4  | 52.3 | 15.2  | 57.9 |
| -40         | 70.3  | 39.9 | 57.7  | 46.5 | 51.0  | 50.7 | 44.4  | 55.5 | 37.7  | 60.9 | 30.9  | 67.1 |
| -30         | 116.8 | 45.5 | 97.9  | 53.0 | 88.4  | 57.7 | 78.7  | 62.9 | 68.9  | 68.8 | 59.0  | 75.3 |
| -20         | 178.8 | 50.6 | 152.9 | 59.0 | 139.7 | 64.0 | 126.5 | 69.6 | 113.1 | 75.7 | 99.5  | 82.5 |
| -15         |       |      | 185.8 | 61.7 | 170.7 | 66.8 | 155.4 | 72.5 | 140.0 | 78.8 | 124.5 | 85.7 |

| SW1L13000 |       |      |       |      |       |      |       |      |
|-----------|-------|------|-------|------|-------|------|-------|------|
| Tcond     | 20    |      | 30    |      | 40    |      | 50    |      |
| Tevap     | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -50       | 48,3  | 36,7 | 34,6  | 42,1 | -     | -    | -     | -    |
| -40       | 79,2  | 42,8 | 63,2  | 49,0 | 51,2  | 57,6 | 37,7  | 66,9 |
| -30       | 126,3 | 50,5 | 106,4 | 56,8 | 90,0  | 66,0 | 71,8  | 76,3 |
| -20       | 193,1 | 61,1 | 167,6 | 66,7 | 145,3 | 75,7 | 120,7 | 86,3 |

| SW1L15000 |       |      |       |      |       |      |       |      |
|-----------|-------|------|-------|------|-------|------|-------|------|
| Tcond     | 20    |      | 30    |      | 40    |      | 50    |      |
| Tevap     | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   |
| -50       | 53,4  | 40,6 | 38,3  | 46,6 | -     | -    | -     | -    |
| -40       | 87,7  | 47,3 | 70,0  | 54,2 | 56,7  | 63,8 | 41,8  | 74,1 |
| -30       | 139,8 | 55,9 | 117,8 | 62,9 | 99,7  | 73,0 | 79,5  | 84,5 |
| -20       | 213,8 | 67,6 | 185,5 | 73,9 | 160,8 | 83,8 | 133,6 | 95,5 |

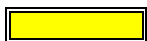
| SW1L17000 |       |      |       |      |       |      |       |       |
|-----------|-------|------|-------|------|-------|------|-------|-------|
| Tcond     | 20    |      | 30    |      | 40    |      | 50    |       |
| Tevap     | Pf    | Pa   | Pf    | Pa   | Pf    | Pa   | Pf    | Pa    |
| -50       | 61,2  | 46,6 | 43,9  | 53,4 | -     | -    | -     | -     |
| -40       | 100,5 | 54,3 | 80,2  | 62,1 | 65,0  | 73,1 | 47,9  | 84,9  |
| -30       | 160,2 | 64,1 | 135,0 | 72,1 | 114,2 | 83,7 | 91,1  | 96,8  |
| -20       | 245,0 | 77,5 | 212,6 | 84,7 | 184,3 | 96,0 | 153,1 | 109,4 |

| SW1L20000 |       |      |       |      |       |       |       |       |
|-----------|-------|------|-------|------|-------|-------|-------|-------|
| Tcond     | 20    |      | 30    |      | 40    |       | 50    |       |
| Tevap     | Pf    | Pa   | Pf    | Pa   | Pf    | Pa    | Pf    | Pa    |
| -50       | 67,5  | 51,3 | 48,4  | 58,8 | -     | -     | -     | -     |
| -40       | 110,7 | 59,8 | 88,4  | 68,5 | 71,6  | 80,5  | 52,7  | 93,6  |
| -30       | 176,6 | 70,6 | 148,7 | 79,4 | 125,9 | 92,2  | 100,3 | 106,7 |
| -20       | 270,0 | 85,4 | 234,3 | 93,3 | 203,1 | 105,8 | 168,7 | 120,6 |

| SW1L22000 |       |      |       |      |       |       |       |       |
|-----------|-------|------|-------|------|-------|-------|-------|-------|
| Tcond     | 20    |      | 30    |      | 40    |       | 50    |       |
| Tevap     | Pf    | Pa   | Pf    | Pa   | Pf    | Pa    | Pf    | Pa    |
| -50       | 72,0  | 54,8 | 51,7  | 62,8 | -     | -     | -     | -     |
| -40       | 118,2 | 63,8 | 94,3  | 73,1 | 76,5  | 86,0  | 56,3  | 99,9  |
| -30       | 188,5 | 75,4 | 158,8 | 84,8 | 134,4 | 98,4  | 107,1 | 113,9 |
| -20       | 288,2 | 91,2 | 250,1 | 99,6 | 216,8 | 112,9 | 180,1 | 128,7 |

| SW1L23000 |       |       |       |       |       |       |       |       |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Tcond     | 20    |       | 30    |       | 40    |       | 50    |       |
| Tevap     | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    | Pf    | Pa    |
| -50       | 84,0  | 63,9  | 60,3  | 73,2  | -     | -     | -     | -     |
| -40       | 137,9 | 74,5  | 110,1 | 85,3  | 89,2  | 100,3 | 65,7  | 116,6 |
| -30       | 219,9 | 87,9  | 185,2 | 98,9  | 156,8 | 114,8 | 125,0 | 132,9 |
| -20       | 336,2 | 106,4 | 291,8 | 116,2 | 253,0 | 131,7 | 210,1 | 150,2 |

Note:



Working conditions which require the additional cooling (see application limits)