

# Carrier Simulation Weather Data

## Region 7: Europe

### v4.30

### Release Sheet

*Region 7 Simulation Weather Data v4.30 replaces v4.01*

## DATA DESCRIPTION

This internet download file contains hourly simulation weather data for 105 cities in Europe. Hourly simulation weather data is used by the Carrier Hourly Analysis Program (HAP) v4 and the Chiller System Optimizer Program v2 for energy simulations.

In this update new weather files have been added and existing files have been updated to use higher quality or more recent data. City files included in this download are shown below. Items marked with "u" are updated files and those marked with "n" are new files. Please refer to the key below for information about which files are suitable for use with HAP and/or Chiller System Optimizer.

|                          |                            |                           |                          |
|--------------------------|----------------------------|---------------------------|--------------------------|
| <b>Austria</b>           | <b>France (continued)</b>  | <b>Netherlands</b>        | <b>Spain (continued)</b> |
| "Vienna (IWEC)           | Pau (TRY)                  | "Amsterdam (IWEC)         | "Valencia (IWEC)         |
| <b>Belgium</b>           | Rennes (TRY)               | De Bilt (TRY)             | <b>Sweden</b>            |
| "Brussels (IWEC)         | Tours (TRY)                | Eelde (TRY)               | "Goteborg (IWEC)         |
| <b>Bulgaria</b>          | Trappes (TRY)              | Vlissingen (TRY)          | "Karlstad (IWEC)         |
| "Sofia (IWEC)            | "Strasbourg (IWEC)         | <b>Norway</b>             | "Kiruna (IWEC)           |
| <b>Czech Republic</b>    | <b>Germany</b>             | "Oslo (IWEC)              | "Ostersund (IWEC)        |
| "Prague (IWEC)           | "Berlin (IWEC)             | <b>Poland</b>             | "Stockholm (IWEC)        |
| <b>Denmark</b>           | "Bremen (IWEC)             | "Krakow (IWEC)            | <b>Switzerland</b>       |
| "Copenhagen (IWEC)       | "Cologne (IWEC)            | "Kologrzeg (IWEC)         | "Geneva (IWEC)           |
| <b>Finland</b>           | "Dusseldorf (IWEC)         | "Poznan (IWEC)            | Zurich (Avg)             |
| "Helsinki (IWEC)         | "Frankfurt (IWEC)          | "Warsaw (IWEC)            | <b>Turkey</b>            |
| <b>France</b>            | "Hamburg (IWEC)            | <b>Portugal</b>           | "Ankara (IWEC)           |
| Agen (TRY)               | Hannover (TRY)             | "Branganca (IWEC)         | "Istanbul (IWEC)         |
| Ajaccio (TRY)            | Heidelberg (TRY)           | "Coimbra (IWEC)           | "Izmir (IWEC)            |
| "Bordeaux (IWEC)         | "Mannheim (IWEC)           | "Evora (IWEC)             | <b>United Kingdom</b>    |
| "Brest (IWEC)            | "Munich (IWEC)             | "Faro (IWEC)              | Aberdeen (TRY)           |
| Carpentras (TRY)         | "Stuttgart (IWEC)          | "Lajes (IWEC)             | Aberporth (TRY)          |
| "Clermont-Ferrand (IWEC) | <b>Greece</b>              | Lisbon (TRY)              | Aldergrove (TRY)         |
| "Dijon (IWEC)            | "Athens (IWEC)             | "Porto (IWEC)             | Birmingham (TRY)         |
| Grenoble (TRY)           | <b>Hungary</b>             | <b>Romania</b>            | Bristol (TRY)            |
| La Rochelle (TRY)        | "Debrecen (Budapest)(IWEC) | "Bucharest (IWEC)         | Camborne (TRY)           |
| Limoges (TRY)            | <b>Ireland</b>             | <b>Russia</b>             | Dundee (TRY)             |
| "Lyon (IWEC)             | "Dublin (IWEC)             | "Moscow (IWEC)            | Eskdalemuir (TRY)        |
| Macon (TRY)              | <b>Italy</b>               | "Saint Petersburg (IWEC)  | Glasgow (TRY)            |
| "Marseilles (IWEC)       | "Genoa (IWEC)              | <b>Spain</b>              | London - Heathrow (TRY)  |
| Millau (TRY)             | "Milan (IWEC)              | "Barcelona (IWEC)         | London - Kew (TRY)       |
| "Montpellier (IWEC)      | "Naples (IWEC)             | Logroño (TMY)             | Manchester (TRY)         |
| "Nancy (IWEC)            | "Rome (IWEC)               | Madrid (TMY)              | New Castle (TRY)         |
| "Nantes (IWEC)           | "Turin (IWEC)              | Malaga (TMY)              | Norwich (TRY)            |
| "Nice (IWEC)             | "Venice (IWEC)             | Murcia (TMY)              | Sheffield (TRY)          |
| Orleans (TRY)            |                            | "Palma de Mallorca (IWEC) | <b>Yugoslavia</b>        |
| "Paris (IWEC)            |                            | "Santander (IWEC)         | "Belgrade (IWEC)         |

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|  |                 |  |
|--|-----------------|--|
|  | "Sevilla (IWEC) |  |
|--|-----------------|--|

### DATA DESCRIPTION (continued)

**Key:**

- n = New weather file.
- u = Updated weather file.
- IWEC = ASHRAE International Weather for Energy Calculations - measured hourly data for temperature, humidity, solar (1982-1999). Requires HAP v4.30 or later, Chiller System Optimizer v2.12 or later.
- TMY = Typical Meteorological Year – measured hourly data for temperature, humidity, solar. Requires HAP v4.10 or later, Chiller System Optimizer v2.00 or later.
- TRY = Typical Reference Year – measured hourly data for temperature, humidity, solar. Requires HAP v4.10 or later, Chiller System Optimizer v2.00 or later.
- Avg = Average day profiles for temperature, humidity, solar. Requires HAP v4.10 or later. Should not be used in Chiller System Optimizer

### INSTALLATION PROCEDURE

*Use the following procedure to download and install the data:*

- Download the file from the Internet site and save it in a folder on your hard disk. We recommend saving to the \E20-II\WEATHER folder.
- Run Windows Explorer and double-click on the file you downloaded. This launches the self-extraction process. In the extraction dialog specify the destination for the extracted data. We recommend extracting files to the \E20-II\WEATHER folder on the drive where HAP or Chiller System Optimizer is installed. This is where the programs will look for the data by default.
- After files have been extracted, the original download file can be erased.
- Simulation weather files are now ready to use with the software.

**Note:**

- This weather data requires approximately 7.2 MB of hard disk space.