

Block Load v4.15 replaces v4.13 and v4.14

UPDATE DESCRIPTION

The following changes were made in v4.14, which was released as a patch update from the Carrier website:

- **Publishing Equipment Sizing Requirements for use in E-CAT.** Carrier is enhancing features for sharing data between engineering programs like Block Load and its Electronic Catalog (E-CAT) software. Part of this work involves improvements to how sizing data generated by Block Load is shared with E-CAT. In v4.14 there is a new "Publish Equipment Sizing Requirements" option on the Project Menu and on the toolbar. When you've finished your HVAC system design and are ready to select equipment, use this "Publish" option to make data available in E-CAT. Once you "Publish" the requirements, the data appears automatically in E-CAT and can be used for selections. Or, after "Publishing", a customer can use the "Send E-mail" option to automatically archive the project and e-mail it to a sales engineer for assistance with selections. The "Publish" feature replaces the traditional method of printing out sizing requirements and then manually entering them into equipment selection software. To take full advantage of these features, Block Load v4.14, X Builder Framework v1.02n, WSHP Builder v4.15 and Packaged RTU Builder v1.09L or later versions need to be installed on your computer. For more information see the links on the E20-II or E-CAT downloads pages at www.commercial.carrier.com.
- **Attaching Multiple 'Zones' To Single-zone CAV Systems.** Block Load v4.14 allows you to connect multiple zones to a Single-zone CAV system and run calculations. In this special case, the attached zones are treated as a group of individual spaces (ie., rooms) with a single shared thermostat. By allowing this configuration, v4.14 can provide airflow sizing data for individual diffusers in a single-zone constant volume system.
- **Acoustical Tile** was added to the list of roof layer properties.
- **Partition U-value.** The minimum allowable value for partition U-values was lowered from 0.1 BTU/hr-sqft-F (0.568 W/sqm-K) to 0.01 BTU/hr-sqft-F (0.057 W/sqm-K).

The following problems were corrected. The version in which the correction was made is shown in brackets [].

- "Subscript out of range" error occurred when calculating a system containing more than 100 zones. [v4.14]
- A wall or roof layer R-value of less than 1.0 was sometimes not permitted by the program. [v4.14]
- Valid inputs for slab floor area were sometimes not permitted by the program. [v4.14]
- The calculated ventilation airflow is 100 times too large when the input is specified as "% of supply air". [v4.14]
- "Error 0" when generating Zone Load Summary or Hourly Zone Loads reports for a system with more than 16 zones. [v4.14]
- Infiltration airflow is sometimes not updated when infiltration CFM/sqft or L/s-sqm is input and then wall width or height is changed. [v4.14]
- Negative miscellaneous sensible and latent loads were ignored design cooling calculations. [v4.14]
- Pressing the View/Print button on the spreadsheet form generated an error. [v4.14]
- Special characters (other than letters or numerals) in system and zone names caused problems when sizing requirements were "published" and then used in Electronic Catalog. [v4.15]

INSTALLATION PROCEDURES

The Block Load v4.15 patch install can only be run on a computer which already contains v4.13 or v4.14.

For standalone workstations, use the following procedure to install the Block Load v4.15 patch update:

- Download the **e20p-blk415.exe** file from the internet site and save it in a folder on your hard disk.
- Run Windows Explorer and double-click on the **e20p-blk415.exe** file. This launches the patch installer.
- Follow the instructions which appear on your screen. Block Load v4.15 will be installed in the same folder where Block Load v4.13 or v4.14 is found.
- **Note: Block Load v4.15 requires X-Builder Framework v1.02n (or later) which can also be downloaded from the Carrier web site.**

INSTALLATION PROCEDURES (continued)

For network installations, use the following procedure to install the HAP v4.31 patch update:

- Download the **e20p-blk415.exe** file from the internet site and save it in a folder on the network server.
- From one workstation run Windows Explorer and double-click on the **e20p-blk415.exe** file.
- Follow the instructions which appear on your screen. Block Load v4.15 will be installed in the same folder where Block Load v4.13 or v4.14 is found.
- Repeat the previous two steps for each workstation which runs HAP. This is necessary to install software components in the Windows folder on C: drive of each workstation.
- **Note: Block Load v4.15 requires X-Builder Framework v1.02n (or later) which can also be downloaded from the Carrier web site.**

Use the following procedure to run HAP v4.33:

- From the Windows Desktop, press the Start button and choose the "Programs" option.
- Choose the "Carrier E-CAT and E20-II Programs" group on the Programs Menu and then double click on the "Block Load v4.15" item in this group.

Minimum computer requirements:

- Hard Disk Space: Minimal additional space required.
- Random Access Memory (RAM): At least 64 megabytes.
- Display Monitor: VGA with at least 800 x 600 and 256 colors.
- Operating Systems: Windows 98, 2000, XP, NT (service pack 4 or later).
- E-CAT / E20-II Configuration Services v2.16. This can be obtained by downloading and installing X-Builder Framework v1.02m (or later).

PREVIOUS VERSION INFORMATION

1. Block Load v4.15 will automatically replace any of the versions Block Load v4.10 thru v4.14. It is not necessary to uninstall any of the versions Block Load v4.10 thru v4.14 before installing v4.15
2. Data from Block Load v4.10 thru v4.14 is usable by Block Load v4.15 immediately. No conversion procedures are needed.
3. Data from both Block Load v3.0 and v4.0 can be converted for use in Block Load v4.15 using the "Convert Block Load Data" options on the Project Menu. The data to be converted can be in the form of an active project or an archive file. Please refer to the on-line help system for details on data conversion procedures.

PROGRAM DOCUMENTATION

An electronic version of the *Block Load Quick Reference Guide* has been updated for this release to include discussions of the "Publish" features. The current electronic edition has a revision date of 2/2007. The printed manual has not yet been updated, and has a publication date of 8/2005.

The program's on-line help system provides complete documentation for the program. This includes a copy of the material from the *Block Load Quick Reference Guide* plus detailed discussions of program inputs, reports and calculation procedures. On-line help can be accessed via the Help Menu, by pressing F1 or by pressing the Help buttons which appear while running the program.