

O'BRIEN GLOBAL PRODUCTS, INC.  
February 10, 2004

Dear Contractor:

**Subject: QuickLoads Pro software, New Jersey Default Settings**

In an effort to help New Jersey HVAC Contractors tailor the default settings of QuickLoads Pro to the P.S.E.G. requirements for Man.J-7 loads to meet the Utility rebate requirements, O'Brien Global Products, Inc. in cooperation with P.S.E.G. are suggesting the following settings.

This is not to suggest these are the only settings, just "Normal" Default starting points. If you know the values need to be changed to something else, be prepared to justify the settings with your local P.S.E.G. Rebate representative.

### **General Instructions**

#### **To set General Default Settings**

To apply these settings to QuickLoads Pro, with the program open and at the "Main Menu", click on the "Setup and Maintenance" tab. Then chose "Temperatures and Conditions" from the menu bar at the top of the screen.

Under each of the tabs "Temperatures, U-Factors, Conditions and Operating Costs" set the "N", Normal setting to the values listed below.

These changes will stay as you set them till you change them to something else. Of course these changes will be applied only to jobs you are about to do, and do not change anything in jobs already completed.

#### **To change existing jobs**

With the program open and at the "Main Menu", click on "Residential Load Calculation". Click on the "Open/Search" button. Four search fields highlight themselves in yellow. Click in the top yellow field, "Customer Name", type in the Customer Job Name you wish to open, or just type a "\*" asterisk to display all jobs.

Click on the job you wish to open. The "Customer/Job Information" screen fills with that job information. Click on the yellow "Worksheet" button to open the job.

The "Load Calculation Worksheet" for the job will be displayed. Click on the "Room Details" button on the bottom left of the worksheet.

A tab view very similar to the "Temperatures, U-Factors, Conditions and Operating Costs" will display with the current values and conditions you have chosen and applied to this job when you originally did it. Change these values as required to bring the job in compliance with the P.S.E.G Utility Rebate requirements as outlined below. Make whatever special deviations from these default suggestions you think are required to properly do the load, and document these changes so the Utility Rebate inspectors can verify your changes are accurate and justifiable.

When you are finished with the changes, click on the "OK\Return to Worksheet" button in the bottom right of the screen. Another screen pops up asking how you would like to apply these changes. In most cases choose the "Apply to All Rooms" button. An informational screen pops up telling you the changes were made, choose "OK"

You are brought back to the Worksheet with all of your new changes applied. Click on the "Save Job" button to save this job with all changes applied. An informational button pops up telling you your changes have been saved, click "OK"

#### Things to be aware of when doing a Load

- Do not enter any values for incandescent or fluorescent lighting loads in any of the rooms, unless unusual, you must document unusual lighting loads, if you add any.
- Do not enter any appliance latent loads, just sensible, normally in the kitchen, not to exceed a maximum (normal) sensible load of 1200 btuh, unless documentable.
- Do not enter any values for "Number of electric motors" or "Average Motor Horsepower" for an average home, Man.J-7 only allows the 1200 appliance sensible btuh above, for residential homes.
- The "Number Exterior Doors Normally Used" per home should be only one
- The maximum "Number of people normally in Room" should not exceed a structure total of 2 per bedroom. People may be placed anywhere in the structure, in any quantity, as long as this total is not exceeded. *Example: In a 3 bedroom home, place up to 6 people anywhere you think best represents actual use.*

Check your load for any errors. If it is ok, you can now click on the "Print" button to print out the load detail report for submittal.

#### Getting Help

If you are having problems understanding these instructions and need help with setting up "Quickloads Pro" defaults, call (830)-620-7709, ext. 4, ask for Roger. He is available during normal working hours, Monday thru Thursday 8:00 AM to 5:00 PM CST and 8:00 AM to 3:00 PM on Fridays, excluding Holiday closures. The O'Brien Global Products website is [www.obrienglobal.com](http://www.obrienglobal.com)

For assistance with the P.S.E.G Utility Rebate format, requirements, or for general rebate information, please visit their website at [www.pseg.com/customer/save/rebate.html](http://www.pseg.com/customer/save/rebate.html) Or just give them a call at (800)-854-4444

For training in Manual –J-7 Load Analysis ask your local HVACR Wholesaler for the closest training center, or contact Eastern Heating Cooling Council at (800)-247-6547 for a schedule of classes in your area, or online at [www.eh-cc.org](http://www.eh-cc.org)

**PSEG NJ Default Settings for the Normal "N" setting.**

<b>Temperatures</b>	<b>Summer</b>	<b>Winter</b>
Outside Temperature (Above ground)	91	10
Outside Temperature (Below Ground)	75	75
Inside Temperature (Thermostat Setting)	75	75
Unconditioned Space	91	10
Above Ceiling Attic/Crawl Space	115	45
Concrete Slab (On Ground)	75	55
Unconditioned Basement	75	55
Below Floor Crawl Space	75	50

<b>U-Factors</b>	<b>Construction Number</b>	<b>U-Factor</b>
Exposed Walls (A) above grade	No.12-C-R-11	.090
Exposed Walls (B) below grade	No.15-all	.001
Partitions	No.13-E	.075
Ceiling / Roof	No.16-C-R-11	.083
Floor (A) above grade	No.20-C-R-13	.076
Floor (B) below grade	No.21-23-All	.001
Floor (C) between cond. floors	No.20-J-R-30	.035
Doors	No.10-D	.460
Windows	No.3-C	.725

<b>Conditions</b>	<b>Normal</b>
Occupant Sensible Load BTUH per person	300
Occupant Latent Load BTUH per person	230
Duct Insulation Factor	1
Duct Temperature Difference Summer	20
Duct Temperature Difference Winter	45

Space Humidity Difference Inside/Outside Winter	15
Space Humidity Difference Inside/Outside Summer	33
C.F.M. Fresh Air per Person	2
Air Change Factor (Air Changes per Hour)	.5
Space Shading Factor	.4
Air Handler Design C.F.M. per Ton	400
Hydronic Heat BTUH per Linier Ft.	600

**Operating Costs****Average**

Electric Cost Per K.W.H.	.11
Natural Gas Cost Per Therm or C.C.F.	.80
L.P. Gas Costs per Gallon	1.30
Fuel Oil Cost per Gallon	1.50
Heating Season Length in Degree Days	4900
Cooling Season-Hours of Operation, Average	900
Efficiency of Natural Gas Appliances	80
Efficiency of L.P. Gas Appliances	80
Efficiency of Heat Pump in C.O.P.	3.25
Efficiency of Fuel Oil Appliances	80
Energy Content of Natural Gas per Unit in BTUH	100000
Energy Content of L.P. Gas per Unit in BTUH	98320
Energy Content of Fuel Oil per Unit in BTUH	138000
SEER	13

Sincerely,



Roger O'Brien  
 President  
 O'Brien Global Products, Inc.