1721 Arroyo Drive • Auburn, CA 95603-9431 530-885-9890 • fax 885-9892 • email info@micropas.com

Re: MICROPAS7 for the 2005 Standards

Dear MICROPAS7 Inquiry:

Enercomp is the author of the market leading software, MICROPAS. Our current version, MICROPAS7, was the approved by the California Energy Commission in 2005.

Why should you be using MICROPAS7? There are many reasons. Are you no longer able to do calculations by hand? Tired of using poorly supported, poorly documented and/or incomplete software? Whatever you are currently using, does it:

- Include the **computer performance** method and **HVAC sizing** calculations all in one package?
- Include toll free support with questions answered by the authors of the software and documentation at any time during regular business hours?
- Focus on doing one thing -- giving your residential buildings the best possible compliance results?
- Run on **virtually any computer** from the oldest to the newest?
- Include support for all of the minimum and optional capabilities, plus special features to handle additions, subdivisions and more?
- Include documentation written by practicing Title-24 experts with help on how to do Title-24 calculations, not just how to use the software?
- Include one year of **free updates** to protect your investment?
- Include a 45 day money back guarantee if you are not satisfied?

We already know the answer – MICROPAS7 is the only package available to include all of these features and more.

The full version of MICROPAS7 is now available at the price of \$795 plus tax and shipping. We ship MICROPAS after receiving your payment and we can take credit card orders over the phone.

Thank you for your interest in MICROPAS7. We hope that the enclosed product literature answers most of your questions about the program. If not, please don't hesitate to call. Our toll free number is 800-755-5908.

Sincerely,

Ken Nittler, P.E. Enercomp, Inc.

MICROPAS Support Policy

- One year of free updates. This protects your investment from changes in the software or standards for one year from the date of original purchase. Mailing and handling costs not included.
- One year of unlimited technical support. We are here to make sure that you get the most out of your MICROPAS purchase. Our toll free number is 800-755-5908.
- 45 day money back guarantee. If the software doesn't meet your needs, you have 45 days to return it for a full refund

"MICROPAS...is the most widely used computer compliance program in California"

Committee Report, Commissioner Art S. Kevorkian Presiding Member, California Energy Commission

Any Questions? Call us at 800-755-5908 or visit our web site at http://www.micropas.com

Demo!

Enercomp thanks you for your interest in the MICROPAS program. Enclosed is your free demo version. This demonstration version is the same as our full working version except that the building size is restricted to 1600 sqft in one California climate zone and our comprehensive User's Manual is not included.

The purpose of this demo version is to give you an idea of how the program operates and to verify that it works on your computer. If you are interested in the details of how to use MICROPAS for actual compliance work, you might want to attend one of our seminars. Or, better yet, go ahead and buy MICROPAS with our money back guarantee. You then have 45 days to try the software risk free. If you are not satisfied that MICROPAS is right for you, you may return it for a full refund.

WINDOWS INSTALLATION INSTRUCTIONS

- 1. Place CD in your CD drive.
- 2. IF installation does not start—click on the Run dialog box, and enter:

D:\INSTALL

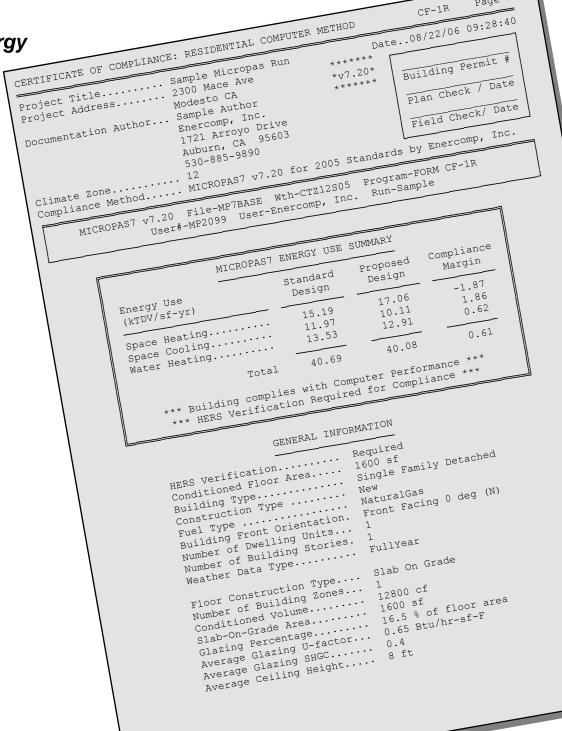
- 3. Respond to each prompt
- 4. When complete, click on the MICROPAS Icon to start the demo version of the software
- 5. To access the user manual with it's "How to Use" chapter, press the start button, pick all programs, pick the Micropas 7 folder and pick the appropriate PDF document

An important part of our products is our technical support, so please don't hesitate to call if there are any questions or problems.

MICROPAS7

The <u>Complete</u> Residential Energy

Compliance Software Solution



Version 7 for the 2005 Standards

ENERCOMP, Inc.

Page 1

RESIDENTIAL BUILDING ENERGY STANDARDS (TITLE-24)

All new homes built in California must meet a high level of energy efficiency, as required by the Residential Energy Efficiency Standards. These standards provide a choice of two methods to show compliance:

- Prescriptive Packages (inflexible, seldom used).
- Computer Performance (most compliance flexibility, most popular method).

The MICROPAS software package shows compliance with the *Computer Performance* method. The California Energy Commission (CEC) has specifically approved MICROPAS for showing compliance with the standards.

WHY USE COMPLIANCE SOFTWARE?

- Fast and easy to make design trade-offs.
- Get credit for building features that aren't accounted for in the Prescriptive Packages.
- Model the features that are the most economical for your project.
- Allows you to take full advantage of energy conserving features and arrive at the most cost effective building design.
- Compliance software is used in most building submittals statewide.

WHY MICROPAS?

MICROPAS is the most popular compliance program in use today . . . more compliance submittals are being made with MICROPAS than any other compliance program.

The popularity of MICROPAS is simple. It is the result of word-of-mouth referrals by our many satisfied customers based on:

- The <u>features</u> MICROPAS offers.
- The <u>user support</u>
 Enercomp provides with the purchase.
- The <u>value</u> MICROPAS gives to a compliance oriented business.

USER SUPPORT

Providing you unsurpassed support continues to be a priority at Enercomp, as it has for over 18 years. Some of our support services include:

- One year of free, unlimited technical phone support from Enercomp -- experts in the operation of MICROPAS and in the details of Title-24 compliance issues.
- A Toll Free support hotline to ensure that your questions are answered promptly.
- Software updates provided free for a year.
 Protects your software investment.
- Notification of changes in the Title-24 energy standards that affect your use of MICROPAS.

MICROPAS AS A BUSINESS

Hundreds of energy consulting firms statewide rely on MICROPAS consulting as their primary source of income. Why?

- You get technical phone support during business hours to resolve your problems quickly.
- Our software is designed to give you and your client the most design flexibility, while minimizing your compliance effort.
- You can rely on Enercomp to update MICROPAS when the CEC changes the energy standards. We provide updates on time and as promised.

WHAT INDUSTRY SAYS

"At last count approximately 95% of our members are using the Performance Approach. In particular, the MICROPAS program. MICROPAS is used the overwhelming majority of the time."

Robert Raymer, Technical Director
California Building Industry Association

"I would like to extend my personal gratitude to you and your company for the dedication and commitment made to develop MICROPAS. This program helps support the residential standards and meet a Commission objective of providing the building industry with flexible design tools for determining building energy compliance."

Elena Schmid, Manager, Building and Appliance Efficiency Office California Energy Commission

"We used several other software packages . . . but not one of the companies give the in-depth assistance which we find at Enercomp. Your knowledge of your product and its application is excellent. I don't believe we ever called you with a question which you didn't answer."

Darrel Kelly, Builders Energy Services, Gilroy, CA

"As a person who does a high volume of compliance business, and one who wants a top quality product, I personally use MICROPAS . . . For the money you get all the Title-24 help you can handle . . . It would be hard to go wrong purchasing this product."

Don Hughes Energy Design Consulting, La Jolla, CA

EASY TO USE

- Menu driven software with clear prompts and extensive error checking.
- Interactive data entry functions similar to a spreadsheet program.
- MICROPAS calculations are easier to plan check because the compliance printouts are clear and understandable -- yielding a faster turn-around at the building department.

TIME SAVING FEATURES

- Optimization reduces the number of calculations by up to a factor of 16 compared to other software packages.
- In most cases, all compliance documentation is generated by MICROPAS, no hand calculations are required.
- Both Computer Performance and HVAC Sizing calculations are performed automatically.
- Compliance results for building design changes are available in seconds.
- Multiple-orientation analysis for production housing is performed automatically and summarized on a single printout.
- Multiple-run feature allows you to run from a few to a few hundred building compliance calculations at a time. It stores the results and lets you select those which meet your compliance criteria.
- WS-5R (Kitchen Lighting) and MF-1R (Mandatory Measures) forms can be completed within the software for complete compliance submittal.

MICROPAS . . . a Brief Overview

COMPLETE COMPLIANCE DOCUMENTATION

MICROPAS automatically generates all the compliance forms you need to complete your compliance submittal.

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PROFESSIONAL COMPLIANCE FEATURES

MICROPAS has the most complete and the most flexible set of compliance features on the market. This optimizes your compliance efforts and ensures that you have the tools for flexible, cost-effective building designs.

- Computer Performance Method
- HVAC Sizing Calculations
- Production Housing
- Building Additions
- Energy Star
- Any HERS Verified Measure
- Complex Water Heating Systems
- Database for managing results

USER SUPPORT

Enercomp provides the best user support in the business -- complete documentation, regular updates, the most advanced compliance features, unsurpassed technical phone support . . . all part of the MICROPAS package.



MONEY-BACK GUARANTEE!

We guarantee your satisfaction. If you are not fully satisfied with the MICROPAS package, return the product within 45 days and Enercomp will refund the entire purchase price.

ENERGY FEATURES

- Building surfaces: walls, doors ceilings, floors, windows, skylights, etc.
- Window shading: overhangs, side fins, shade screens.
- Thermal mass: slab floors, fireplaces, tile, mass walls.
- HVAC equipment efficiencies.
- Natural ventilation.
- Water Heating: gas, electric and heat pump; single systems or complex, multiple heater systems.

Special Energy Features:

- House Wrap.
- Radiant Barriers and Cool Roofs.
- Reduced Air Infiltration measures.
- Tested Duct Leakage.
- Reduced Duct Surface Area.
- Buried Duct.
- Duct Design Credit.
- Verified Fan Wattage.
- Maximum Cooling.
- Refrigerant Charge and Airflow.
- Thermostatic Expansion Valves.
- Building Additions.
- Production Housing (subdivisions).
- Multiple-zone buildings.
- Zonally controlled HVAC systems.
- Controlled Ventilation Crawlspaces
- Hydronic Space and water heating systems.

HVAC SIZING CALCULATIONS

The MICROPAS package includes calculations to determine the design loads for sizing heating and cooling equipment.

- Based on ASHRAE Cooling and Heating Load Calculation Manual.
- HVAC sizing calculations can be performed separately or as part of the MICROPAS run.
- Includes ASHRAE design temperatures for all California locations. Custom design conditions can be added by the user.

SOME OF OUR THOUSANDS OF USERS

ENERGY CONSULTANTS

Consulting, construction, and manufacturing companies throughout California and the U.S.

UTILITIES

Pacific Gas and Electric Company, Pacific Power & Light, Sacramento Municipal Utility District, San Diego Gas and Electric, Southern California Edison, Southern California Gas Company.

BUILDING DEPARTMENTS

Over one hundred city and county building departments are using the MICROPAS program and the *MICROPAS Compliance Manual* to verify compliance submittals throughout the state of California.

ADVANCED FEATURES

Multiple runs:

MICROPAS can run up to 1,000 runs at a time unattended (during coffee break, lunch, etc.)

Database of Run Results:

You can better manage your Tittle-24 jobs by using the MICROPAS database. This feature automatically stores the results of each calculation and then lets you selectively printout whichever jobs and reports are needed. This database makes complex jobs and a busy compliance office much easier to manage.

Parametric Run Generator:

This option gives your the power to efficiently perform analyses that involve a large number of MICROPAS runs. First, you input one or more buildings, and then specify which variations you wish to make on those buildings. MICROPAS will automatically generate and calculate each building variation (up to 1,000 at a time).

Optional: Research Version:

The Research Version of MICROPAS <u>unlocks</u> a variety of input values that are normally constrained for California Title-24 compliance work. This version allows you to do analyses for out-of-state locations (weather data is available) and for any analyses which requires non-Title-24 assumptions.

Optional: C-HERS Version:

The C-HERS (California Home Energy Rating System) Version of MICROPAS is used to determine if a home meets Energy Star criteria set by the U.S. Environmental Protection Agency. This version is used in conjunction with the CHEERS (California Home Energy Efficiency Rating System) HERS rating program and is used in many utility incentive programs.

HARDWARE REQUIREMENTS

Personal Computers: Requires Windows 3.1/95/98/ME/NT/XP/2000 or DOS, 640k of memory and a hard disk. Works with any printer.

Macintosh Computers: Compatibility with the Macintosh is accomplished using a software emulation product which essentially turns your Macintosh into a PC running Windows.

PACKAGE INCLUDES

- MICROPAS Program CD.
- Sample building data.
- Weather data for all 16 California Climate Zones.
- MICROPAS User Manual
- One year of toll-free technical phone support.
- One year of free software updates.
- 45-day Money-back Guarantee.

Call us at 800-755-5908

MICROPAS7

Compliance Report Overview

The reporting capabilities of MICROPAS provide you with the proper compliance documentation for nearly all compliance situations -- eliminating hand calculations, making the most of your time, and speeding the plan checking process by providing clear, complete and concise reports.

This document describes many of the MICROPAS compliance reports including:

- CF-1R Certificate of Compliance
- Production Housing CF-1R Summary
- **HVAC Sizing Calculations**

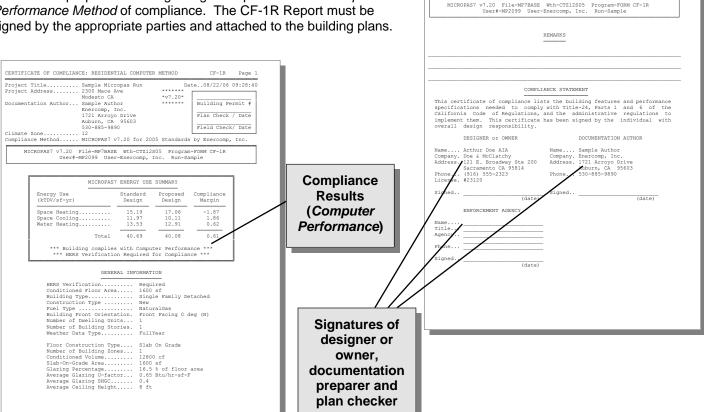
Other compliance report available with MICROPAS (but not shown here) are:

- MF-1R Mandatory Features Checklist (a required features checklist for plan checking).
- WS-5R Kitchen Lighting Worksheet (required to document compliance with requirement that 50% of kitchen lighting be from fluorescent).

Project Title...... Sample Micropas Run Date..08/22/06 09:28:40

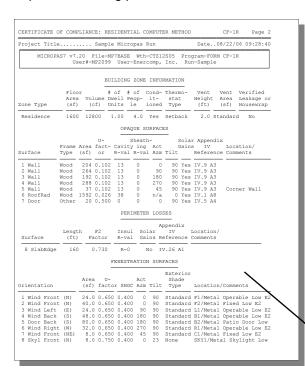
CF-1R Report: Certificate

The CF-1R Report lists the energy features of the building. The Report shows if the proposed building design complies with the Computer Performance Method of compliance. The CF-1R Report must be signed by the appropriate parties and attached to the building plans.



CF-1R Report (continued)

The CF-1R Report shows a detailed list of the energy related building data used for the analysis. This data is verified by the building department during plan check.



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Detailed Building Data CERTIFICATE OF COMPLIANCE: RESIDENTIAL COMPUTER METHOD

Project Title........ Sample Micropas Run Date..08/22/06 09:28:40

MICROFAS7 v7.20 File-MB7BASE Wth-CTI12S05 Program-FORM CF-IR Userf-MF2039 User-Enhercomp, Inc. Run-Sample

SPECIAL FEATURES AND MODELING ASSUMPTIONS

*** Installed to manufacturer and CEC specifications, and *** verified during plan check and field inspection.

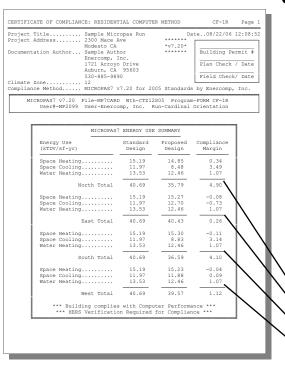
This building incorporates a HEES verified Refrigerant Charge test or a HEES verified Thermostatic Expansion Valve (TXV). If a cooling system is not installed, then HEES verification is not necessary. This building incorporates a Radiant Barrier.

*** Items in this section require field testing and/or *** verification by a certified Bone energy rater under *** verification by a certified bone energy rater under *** verification in and the provider using *** CEC approved Hearling and/or *** erification methods and *** Bust be reported on the FF-4R installation certificate. ***

This building incorporates a HEES verified Ferfication and before said to a HEES verified Thermostatic Expansion Valve (TXV). If a cooling system is not installed, then HEES verification is not necessary. This building incorporates HEER verified Duct Leakage Target leakage is calculated and documented on the CF-4R. If the measured CFM is above the target, then corrective action must be taken to reduce the duct leakage and then must be retested. Alternatively, the compliance calculations could be redone without duct testing. If ducts are not installed, then HEES verification is not necessary.

Special Features and HERS Verification messages

Production Housing Worksheet



.MICROPAS has the powerful capability of analyzing compliance for production housing (subdivisions).

Production house design (one which can be built in any compass orientation) must be shown to comply in the four cardinal orientations (north, south, east and west). MICROPAS automatically performs calculations for each of these orientations and then summarizes the compliance results on a single CF-1R page (as shown on the left).

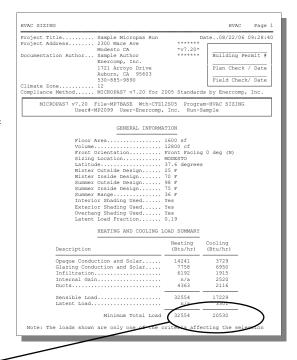
This feature lets you use only one building data file and thus saves you the hassle of maintaining four files as the building design is finalized. The reports generated by this feature are one-fourth as many pages and provides a single place for verification by the building department.

Compliance Results for all four cardinal

HVAC Sizing Report

The MICROPAS HVAC Sizing Report shows the design loads for the heating and cooling equipment. These loads are one of the criteria used to select HVAC equipment.

The report shown at the right is a summary page. Detailed reports of the load calculations are also available.



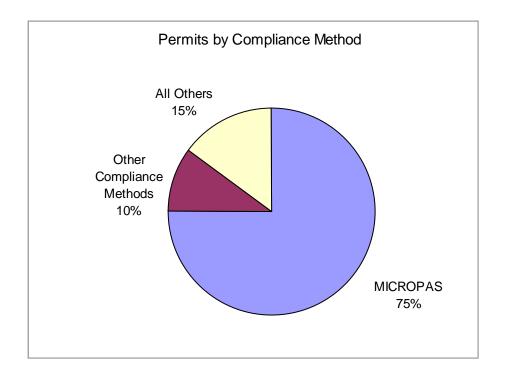
Design Loads

MICROPAS

MICROPAS MARKET SHARE

75%

In the most recent study of the Residential Field Data Project, the California Energy Commission reports that in a survey of 1230 homes in climate zones 10, 12, 13 and 14 that **MICROPAS** runs account for about **75%** of the submittals studied.



Why would you want to use anything else?

Word-of-Mouth— The BEST reference for MICROPAS

"From both sides, documenting compliance to plan check, Micropas wins hands down. The absolute best software and support for all your residential projects."

Lynette Sergius, Owner

AREA Title 24, Santa Cruz

"I've been using Micropas for over 8 years. I've found it to be fast, reliable, easy-to-use, intuitive and free of bugs that have plagued many of the other energy programs."

Mark Gallant, Certified Energy Plans Examiner

Haynal & Co., Inc. Energy Calculations, Escondido and San Diego

"Micropas is a mature residential building energy usage analysis program with outstanding documentation and support. Thanks Enercomp for the many years of excellence."

Tom Rotchford, P.E.

President, Solargy, Inc., Woodland Hills

"Enercomp's residential building energy analysis software is by far the easiest to use and most powerful tool I have come across in the over 10 years I have been in the business. Enercomp's software support is everything a new or advanced user could hope for - I only wish all software vendors were as responsive and helpful as the staff at Enercomp. Enercomp's software is an integral part of our daily business."

Kevin Brummel

Energy Compliance Systems, San Jose

"I recommend Micropas without reservation! It's easy to use, requiring minimal input time, and Enercomp's technical support is outstanding. Their knowledge of the Standards is unsurpassed; I always know they'll provide accurate, timely, reliable answers to my questions. My only complaint is that there aren't more products produced by Enercomp -- I would happily buy anything they offer!"

Pat Chaix

Narrow Gage Consulting, Nevada City

"I have used four different types of residential compliance programs. Micropas has all of the available options, and it is easier to use. Any questions I had were always answered promptly. I highly recommend it." Beth Brummitt, CEA

past-chair, CABEC, San Diego

"It is a pleasure to recommend the Enercomp. I have been doing energy compliance for 10 years. I've tried other programs, but Micropas is by far the best. It is rare to find a quality product and excellent customer service, but you get both with Enercomp."

Sue Higgins

Energy Etc., Santa Clarita

"MICROPAS is a very flexible compliance tool that allows ConSol to provide quality Title 24 and Model Energy Code energy code compliance documentation to production builder clients."

Mike Hodgson, President

Consol, Inc., Stockton

MICROPAS® License Agreement

LICENSE

ENERCOMP, INC., GRANTS A *NONTRANSFERABLE* AND *NONEXCLUSIVE* LICENSE FOR THE PURCHASER TO USE MICROPAS ONLY ON A SINGLE COMPUTER LOCATED AT THE PURCHASER'S NORMAL PLACE OF BUSINESS.

THE PURCHASER ACKNOWLEDGES THAT THE REPRODUCTION OR TRANSFER OF THIS PROGRAM TO ANOTHER ENTITY IS *NOT* AUTHORIZED UNDER THIS LICENSE AGREEMENT AND THAT ANY SUCH ACTIVITY IS A SERIOUS VIOLATION OF ENERCOMP, INC.'S COPYRIGHT.

DISCLAIMER OF WARRANTY

THE MICROPAS PROGRAM AND MANUALS ARE PROVIDED "AS IS" WITHOUT ANY EXPRESSED OR IMPLIED WARRANTIES. BECAUSE PROPER USE OF THIS PROGRAM DEPENDS ON THE OPERATOR, THE PURCHASER AGREES TO ASSUME THE ENTIRE RISK OF USING THE PROGRAM. ANY LIABILITY OF ENERCOMP, INC. WILL BE LIMITED EXCLUSIVELY TO PRODUCT REPLACEMENT.

Here is what is intended by the phrase "on a single computer at the purchaser's normal place of business":

- 4. You may load and use the software on any computer, as long as one user uses it on only one computer, at a time.
- 5. If several persons use this software at the same time, you must pay one license fee for each copy being used.
- 6. If you are using this software on a computer network, then you must pay one license fee for each computer on the network with access to the software.
- 7. If you are using the software at more than one place of business, then an additional license fee is required.

If only one person can use the program at a time, then only one license is needed. If more than one person can use it at a time, then an additional license fee is required. Our intent is to require those users who have more than one person using and profiting from our intellectual property at a time to pay a small additional license fee for the additional copies in use. Thank you for your cooperation and understanding.

If you have any questions about this agreement, please call us at 800-755-5908.



All MICROPAS® orders include software, a printed MICROPAS7 user manual and electronic versions of the user manual and other residential compliance reference materials, one year of unlimited technical support and a 45-day money back guarantee. MICROPAS7 runs under in all versions of Windows and DOS, and requires at least 22m of available disk space. Orders are shipped, via priority mail, usually the same day received.

Company Information

With the exception of the name, the following information is coded onto the program CD before it is shipped. Please be sure that these lines read exactly as you like, as they will be printed on each printout. The printouts have space for 32 characters on each line.

Name		Phon	Phone		
Company		FAX			
Address					
City	ate Zip	 E-ma	il		
Instructions					
Read the license agreement and sign below. Check write a check. FAX this form to 530-885-9892 or matricense Agreement I have read the license agreement and agree to its to use (see below)?	ail to Enercomp, Ir	c. 1721 Arroyo C	Orive, Auburn CA 9	5603.	
☐ We will be using a single copy of MICROPAS	☐ We will	be using c	opies of MICROPA	S	
Signature	Title		Date	Date	
Order Information ☐ MICROPAS7 v7.3 (\$795) plus 7.25% sales tax	and shipping			858.00	
☐ Additional license(s)			Number	107.25 each	
 If multiple people can use MICROPAS at the same tin If you are using this software on a computer network, the with access to the software. If you are using the software at more than one place of b 	en you must pay one lice	nse fee for each comp	outer on the network		
Special Options ☐ C-HERS option (calculates Energy Star, percen	nt above Title 24, a	nd C-HERS sco	re)	53.63	
☐ Research option (unlocks CEC fixed assumptio	ns for research, de	esign, complianc	e outside CA)	321.75	
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Name on Card:			Security Code		
ENE	PCOME	Inc			