HIII A Exc Since 1992, our heat exchangers have set the standard in hot water production in homes and businesses nationwide... DANGER ▶ 99% Heat Transfer Efficiency Saves Energy Double-Wall Exempt Output up to 1800 gph per unit Output Temperature up to 190°F Instantaneous - No "Recovery" Needed Prevents bacterial growth Buffers Low-Mass, High Performance Boilers Fits through doorways and in elevators Requires No Maintenance Lowest Lifetime Operating Costs Transferable Lifetime Residential Warranty Industry's Best Commercial Warranty Never Run Out of Hot Water Again!

Call today for your FREE proposal and installation schematic

GROUP THERMO IMCORPORATED

Tel: 908-757-8955 • Fax: 908-757-1153

ERGOMAX

Heat Exchangers Deliver **High** Performance, **Maximum** Energy Savings



For the homeowner...

Regardless of the size of your home, an ERGOMAX heat exchanger attached to your heating boiler will give you an instantaneous and continuous supply of hot water -- enough to run the dishwasher and clothes washer, give the kids a bath and still be able to fill your spa tub or take a hot shower.



For the

business owner...

Whether you operate a restaurant and need 180°F dishwashing water, manage apartment buildings or a hotel, installing ERGOMAX heat exchangers means sparkling clean table settings and an end to complaints about not enough hot water from the tenants or overnight guests. Anywhere high volumes of hot water and/or high temperatures are needed -- schools, hospitals, nursing homes, health clubs, sports centers or laundries -- there is an ERGOMAX model to fit your needs. And, the energy savings combined with lower long-term capital expenditures add up to a rapid payback to increase your bottom line.

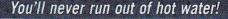


For the contractor and specifying engineeer...



Stamped ERGOMAX units are available by special order when A.S.M.E. equipment is demanded.

ERGOMAX heat exchangers are exempt from double-wall requirements under BOCA, IAPMO and the UPC.



An ERGOMAX tank produces hot water for as long as it's needed, limited only by the size of your boiler.

With a storage tank, when 70% of its hot water is used, the incoming cold water has cooled the rest. During recovery (refilling and reheating), no hot water is available.

ERGOMAX productivity
Storage Tank productivity

How Ergomax Units Work...

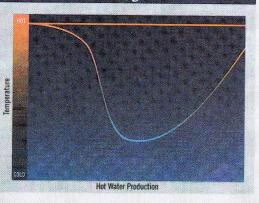
Operating at 99% heat transfer efficiency, Ergomax units heat water instantaneously using less boiler power than traditional water heaters or other indirects, and eliminate the need for large storage tanks in many applications.

How?

Turbulence and Thermal Storage.



ERGOMAX vs Storage Water Heater



Turbulence

Boiler water is injected into the tank in a turbulent state which facilitates heat transfer while minimizing stratification and thermal stresses. Similarly, cold water entering the copper coils is accelerated to scrub the coil and make the heat transfer process more efficient.

Thermal Storage

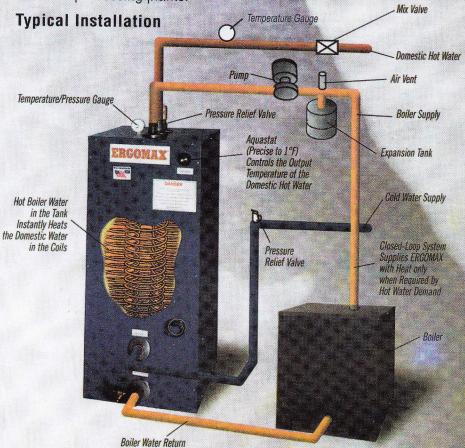
The Ergomax tank full of hot boiler water acts as a thermal heat sink which is used to heat potable water before the main heat source (boiler, solar panels, etc.) is activated. For this reason, Ergomax heat exchangers are the ideal choice wherever hot water demands exist. such hotels/motels, apartments, sports clubs, schools, dormitories, dairies and food processing plants.

Prolonged Lifespan

Ergomax heat exchangers will outlive and outperform traditional water heaters because they are designed not to scale-up or corrode.

Tanks made of A.S.M.E. listed steel and copper heat exchangers offer great durability. Insulation reduced heat loss to less than 1/2°F per hour and permits easy access to all parts and fittings under the steel jacket.

All models come with a temperature/pressure gauge, aquastat, pressure relief valve and drain, except the E23 which has no gauge.



ERGOMAX

Heat Exchangers

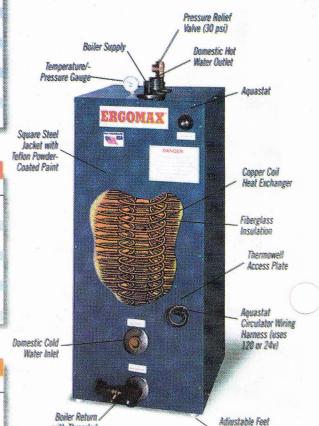
ERGOMAX E109

| Domestic hot water produced per hour in U.S. gallons† | | | | | | | |
|---|---------|--------------|-------|------------------|-------|-------|--|
| Net BTUH | First h | our 140°F | 180°F | Continu 110°F | 140°E | 180°F | |
| 400 000 | 807 | 531 | 363 | 687 | 483 | 346 | |
| 500 000 | 979 | 651 | 450 | 859 | 603 | 433 | |
| 600 000 | 1151 | 7772 | 536 | 1031 | 724 | 519 | |
| 700 000 | 1323 | 893 | 522 | 1202 | 845 | 606 | |
| 800 000 | 1494 | 1014 | | 1374 | 965 | | |
| 900 000 | 1666 | 1074 | | 1546 | 1026 | | |
| 1 050 000 | 1864 | | | 1804 | | | |

ERGOMAX E65

| Domestic be | ot water pr | oduced | per hour in | Domestic hot water produced per hour in U.S. gallons† | | | | | | |
|-------------|-------------|--------------|-------------|---|---------------|-------|--|--|--|--|
| Net BTUH | First h | our 140°F | 180°F | Contin 110°F | 0005 140°F | 180°F | | | | |
| 200 000 | 416 | 270 | 183 | 344 | 241 | 173 | | | | |
| 250 000 | 501 | 331 | 227 | 429 | 302 | 216 | | | | |
| 300 000 | 587 | 391 | 270 | 515 | 362 | 260 | | | | |
| 350 000 | 673 | 451 | 309 | 601 | 422 | 300 | | | | |
| 400 000 | 759 | 512 | 352 | 887 | 483 | 343 | | | | |
| 450 000 | 845 | 572 | | 773 | 543 | | | | | |
| 500 000 | 931 | | | 859 | | | | | | |
| 600 000 | 1056 | | | 1020 | | | | | | |

STANDARD EQUIPMENT



ERGOMAX E45

| Net | First h | our | | Contin | NAMES OF TAXABLE PARTY. | |
|---------|---------|-------|-------|--------|-------------------------|-------|
| BTUH | 110°F | 140°F | 180°F | 110°F | 140°F | 180°F |
| 200 000 | 392 | 261 | 180 | 344 | 241 | 173 |
| 250 000 | 477 | 321 | 223 | 429 | 302 | 216 |
| 300 000 | 563 | 381 | 266 | 515 | 362 | 260 |
| 350 000 | 649 | 442 | 300 | 601 | 422 | 292 |
| 400 000 | 735 | 502 | | 587 | 483 | |
| 450 000 | 821 | 562 | | 773 | 543 | |
| 500 000 | 946 | 907 | | 859 | | |

ERGOMAX E44

| Net BTUH | First h | our 140°F | 180°F | Continu | 100S 140°F | 180°F |
|-------------|---------|--------------|-------|---------|---------------|-------|
| 150 000 | 306 | 200 | 137 | 258 | 181 | 130 |
| 200 000 | 392 | 261 | 180 | 344 | 241 | 173 |
| 250 000 | 477 | 321 | 223 | 429 | 302 | 216 |
| 300 000 | 563 | 381 | 266 | 515 | 362 | 260 |
| 350 000 | 649 | 442 | | 601 | 422 | |
| 400 000 | 735 | | | 687 | | |
| 450 000 | 797 | | | 773 | | |

ERGOMAX E24

| Net | First h | DUT | | Continuous | | |
|---------|---------|-------|-------|------------|-------|-------|
| BTUH | 110°F | 140°F | 180°F | 110°F | 140°F | 180°F |
| 150 000 | 284 | 192 | 134 | 258 | 181 | 130 |
| 200 000 | 370 | 252 | 177 | 344 | 241 | 173 |
| 250 000 | 455 | 312 | 220 | 429 | 302 | 216 |
| 300 000 | 542 | 373 | | 515 | 362 | |
| 350 000 | 628 | 433 | | 601 | 422 | |
| 400 000 | 714 | | | 687 | | |

ERGOMAX E23

| Net | First h | | Continu | |
|---------|---------|-------|---------|-------|
| BTUH | 110.1 | 140°F | 110.1 | 140°F |
| 100 000 | 198 | 131 | 172 | 121 |
| 150 000 | 284 | 192 | 258 | 181 |
| 200 000 | 370 | 252 | 344 | 241 |
| 250 000 | 456 | 312 | 429 | 302 |
| 300 000 | 542 | | 515 | |

SPECIFICATIONS

| Model | Tank Volume (U.S. gal) | Heat Transfer Area (sq.ft.) | Domestic Water Connections | Boiler Connections | Height* | Width* | Weight (lbs) |
|------------|---------------------------|--------------------------------|-------------------------------|-----------------------|---------|--------|--------------|
| E109 | 119 | 58.9 | 2" sweat | 2" NPT | 60" | 30.5" | 625 |
| E65 | 72 | 32.7 | 1 1/2" sweat | 1 1/2" NPT | 49" | 26.5" | 385 |
| E45 | 48 | 32.7 | 1 1/2" sweat | 1 1/4" NPT | 45* | 24.5" | 265 |
| E44 | 48 | 26.2 | 1 1/2" sweat | 1 1/4" NPT | 45" | 24.5" | 235 |
| E24 | 26 | 26.2 | 1 1/4" sweat | I" NPT | 42" | 19.5" | 200 |
| E23 | 26 | 19.6 | 1 1/4" sweat | I" NPT | 42" | 19.5" | 170 |

† Based on ASHRAE (D.O.E.) Test method with 40°T domestic water and boiler water at 180°F. (Boiler water must be 200°F to obtain 180°F output volumes.) R Factor=15. Standby loss<1/27 per hour. * Add tour inches to basic tank dimensions to allow for utility (DHW) and boiler connection.

In residential use, ERGOMAX units are covered by a Limited Lifetime Warranty transferable to a second owner within the first 10 years. Commercial units are covered by a 10 Year Warranty - 100% in Years 1-5, prorated 20% in each of Years 6-10.

for Levelling and

Floor Clearance

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