

**WARE**

Powerful solutions...  
Extraordinary results.

# The GRIME

June / July 2011  
Newsletter

## Ware's Mobile Clean Room Provides Fast, Top-Notch Valve Service

Ware has, once again, responded to customers' high expectations by creating a new mobile clean room trailer.

This mobile unit can be used on site to provide services for industrial gas industries manufacturing gases such as oxygen, ammonia and chlorine as well as other industries like chemical plants and steel manufacturers.

Gas manufacturers require spe-

cific cleaning processes for valves, particularly the safety valves used in the production of oxygen. The understanding of oxygen's reactivity led to strict regulations regarding the cleanliness of equipment used in oxygen service.

Avoiding contaminants when working with valves for oxygen is important due to the reactivity of oxygen with easily combustible materials like grease and oil. Oxygen is not flammable on its own but assists in combustion, as it can react with most materials.

Care must be taken in the selection, repair and cleaning of equipment and materials, which need to be oxygen compatible and free from contaminants. The main contaminants to avoid or eliminate

are hydrocarbon oils and greases, which are easily combustible as well as particulate matter, which can easily ignite or cause ignition.

Depending on the valve, repairs are required every one to five years. During this normal repair process, the valves have to be cleaned and completely free of contaminants when reassembled.

"The cleaning requirements have not changed," said Bill Fogarty, Valve Division Manager, "but we have noticed several customers coming to us with higher expectations for their valves."

The new mobile unit is an 8' x 12' trailer that is completely made of stainless steel and easy to maintain and keep clean as a sterile environment to accommodate the special cleaning requirements. Many companies maintain a sterile clean room where they take customer valves for cleaning. Ware's mobile unit makes it possible for Ware professionals to perform the clean-

*continued on pg. 7*



# Develop a plan now to prepare for flood damages later

**F**loods, whether caused by nature or by structural or mechanical failures, can cause deaths, injuries, and severe property damage. To assist in the recovery of boiler systems affected by flooding to help mitigate further risks to public safety and property damage, follow these guidelines:

- Develop and enforce safety procedures for personnel. Because flood waters contain many hazardous chemicals and bacteria, safety of the personnel performing inspections and repairs is the highest priority.

- Turn off all utilities in the boiler room until inspection and necessary repairs of the individual systems allow reactivation.

- Conduct a careful visual inspection of the entire boiler system, both internally and externally. Make notations of obvious problems and any special equipment or personnel needed to facilitate repairs.

- Remember that some equipment may only be repaired by the original manufacturer or its licensed agents in order to maintain warranties and/or certification.

- Examine boiler setting or foundation closely to determine if it has been weakened or undermined. Any movement of the boiler or building

will have an adverse effect on piping and other equipment connected to both the boiler and building structure.

- Inspect the boiler's insulation. Waterlogged insulation will accelerate external corrosion of boilers and pipes. If removal is deemed necessary, remember that asbestos is still present in many boiler rooms and requires handling by specially licensed personnel. If the insulation is left in place and the boiler is fired before thoroughly drying, steam can be



generated within the insulation layers, creating the potential for explosive damage to the external lagging.

- Check the refractory and fire brick for deterioration or loosening.

- Clean the feed water and condensate return systems thoroughly removing any mud, silt, or debris. After the boiler is put back in operation, the water quality should be checked often for contamination of any kind.

- Check pressure relief devices for corrosion or any damage that would cause binding and failure to operate. Only qualified personnel should perform disassembly or repair of a pressure relief device. Some jurisdictions require this work to be performed by a company holding the National Board "VR" symbol stamp. Inspect the outlet and discharge line of the pressure-relieving device should be inspected for blockage.

- Inspect all drains and blow-off lines to ensure there is no blockage by debris.

- Electric/electronic controls for replacement or repair as needed. Replace any flame safeguard controls, ignition transformers, and safety shutoff valves on the fuel system that have the potential for causing furnace explosions. Drain and clean other fuel system components or replace as necessary. All work performed on the fuel system and safety devices must comply with jurisdictional requirements.

- Inspect all electric motors and wiring closely to determine if repair or replacement is necessary. All electrical work must comply with jurisdictional requirements.

- Check to make sure air inlets are clear and chimneys or stacks are open.

- This checklist is not intended to

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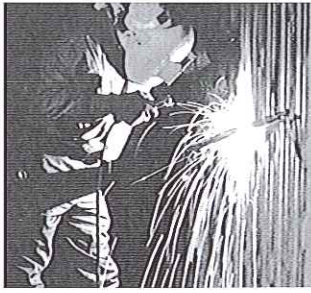
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# The GRIME

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## Equipment List

All equipment listed is for sale or lease and is subject to availability

| Unit  | HP/PPH | Year | Manufacturer              | Fuel     | Type     | Pressure | Controls |
|-------|--------|------|---------------------------|----------|----------|----------|----------|
| 767   | 75,000 | 2011 | Victory Energy            | G#2      | Steam/SH | 750/750  | IRI      |
| 747   | 75,000 | 2000 | B&W (Low NOx)             | G#2      | Steam/SH | 750/750  | IRI      |
| 750   | 70,000 | 1996 | Nebraska (Low NOx)        | G#2      | Steam/SH | 750/750  | IRI      |
| 752   | 60,000 | 1980 | B&W                       | G#2      | Steam    | 750/750  | IRI      |
| 709   | 60,000 | 1979 | Zurn (Low NOx)            | G#2      | Steam    | 500      | IRI      |
| 741   | 60,000 | 1979 | Zurn                      | G#2      | Steam    | 550      | IRI      |
| SB79  | 40,000 | 1986 | Cleaver Brooks            | Gas      | Steam    | 260      | IRI      |
| SB80  | 40,000 | 1986 | Cleaver Brooks            | Gas      | Steam    | 260      | IRI      |
| 615   | 40,000 | 1975 | B&W                       | G#2      | Steam    | 325      | IRI      |
| SB29  | 1,200  | 1990 | Johnston (Low NOx)        | G#2      | Steam    | 200      | IRI      |
| 496   | 800    | 1990 | York-Shibley (Low NOx)    | G#2      | Steam    | 200      | IRI      |
| 634   | 800    | 1972 | York-Shibley              | G#2      | Steam    | 150      | IRI      |
| SB150 | 800    | 2011 | Victory Energy (Low NOx)  | G#2      | Steam    | 300      | IRI      |
| SB123 | 600    | 2008 | York-Shibley              | G#2      | Steam    | 150      | UL/CSD1  |
| SB149 | 500    | 2011 | Victory Energy (Low NOx)  | G#2      | Steam    | 250      | IRI      |
| SB139 | 500    | 2001 | Cleaver Brooks            |          | Steam    | 150      |          |
| SB63  | 500    | 1985 | Superior                  | G#2      | Steam    | 150      | IRI      |
| SB152 | 400    | 2011 | York-Shibley (Low NOx)    | G#2      | Steam    | 150      | UL/CSD1  |
| SB138 | 350    | 1994 | Cleaver Brooks            |          | Steam    | 150      |          |
| SB18  | 300    | 1995 | Clayton                   | G#2      | Steam    | 200      | IRI      |
| SB137 | 250    | 1994 | Cleaver Brooks            |          | Steam    | 150      |          |
| 415   | 250    | 1980 | Eclipse                   | #2 Oil   | HT/HW    | 954      | IRI      |
| 719   | 250    | 1987 | Superior                  | G#2      | Steam    | 150      | IRI      |
| SB148 | 200    | 1995 | Kewanee                   | Gas      | Steam    | 325      | IRI      |
| SB146 | 200    | 1995 | Kewanee                   | Gas      | Steam    | 325      | IRI      |
| SB147 | 200    | 1995 | Kewanee                   | Gas      | Steam    | 325      | IRI      |
| SB136 | 250XID | 2010 | York-Shibley              | G#2      | Steam    | 150      | UL/CSD1  |
| SB144 | 175XID | 2010 | York-Shibley              | G#2      | Steam    | 150      | UL/CSD1  |
| SB142 | 175XID | 2010 | York-Shibley              | G#2      | Steam    | 150      | UL/CSD1  |
| SB153 | 150    | 1998 | Precision                 | Electric | Steam    | 150      | UL       |
| SB125 | 150    | 2008 | Superior                  | G#2      | Steam    | 150      | UL/CSD1  |
| SB76  | 150    | 2007 | York Shibley (5 of these) | #2Oil    | Steam    | 150      | UL/CSD1  |
| SB132 | 100    | 2003 | Johnston                  | Gas      | Steam/HW | 15/30    | IRI      |
| SB131 | 100    | 2003 | Johnston                  | G#2      | Steam/HW | 15/30    | IRI      |
| SB127 | 100XID | 2009 | York Shibley              | G#2      | Steam    | 150      | UL/CSD1  |
| SB141 | 100XID | 2010 | York Shibley              | G#2      | Steam    | 150      | UL/CSD1  |
| SB151 | 50     | 2011 | York Shibley              | G#2      | Steam    | 150      | UL/CSD1  |
| SB145 | 50     | 2001 | Cleaver Brooks            | Gas      | Steam    | 150      | IRI      |
| RB753 | 15     | 1986 | Fulton                    | Electric | Steam    | 150      | UL       |
| SB65  | 15     | 2007 | Fulton                    | Gas      | Steam    | 150      | UL       |

Request a quote on-line at [www.wareinc.com](http://www.wareinc.com) or call 800-228-8861

# WARE buys used boilers

All equipment listed is for sale or lease and is subject to availability

| Unit   | Size    | Manufacturer | Voltage   | Type | Year |
|--------|---------|--------------|-----------|------|------|
| RC-24  | 30 Ton  | Mc Quay      | 480 v     | 3 ph | 2000 |
| RC-21  | 40 Ton  | Mc Quay      | 480 v     | 3 ph | 1999 |
| RC-1   | 60 Ton  | Mc Quay      | 480 v     | 3 ph | 1995 |
| RC-2   | 60 Ton  | MC Quay      | 480 v     | 3 ph | 1995 |
| RC-13  | 60 Ton  | Trane        | 200-230 v | 3 ph | 1989 |
| RC-5   | 95 Ton  | Mc Quay      | 480 v     | 3 ph | 1995 |
| DH-01  | 100 Ton | Trane        | 480 v     | 3 ph | 2008 |
| DH-02  | 100 Ton | Trane        | 480 v     | 3 ph | 2008 |
| RC-6   | 105 Ton | Mc Quay      | 480 v     | 3 ph | 1995 |
| RC-8   | 155 Ton | Mc Quay      | 480 v     | 3 ph | 1995 |
| RC-10  | 195 Ton | Mc Quay      | 480 v     | 3 ph | 1995 |
| RC-11  | 195 Ton | Mc Quay      | 480 v     | 3 ph | 1995 |
| RC -25 | 300 Ton | Mc Quay      | 480 v     | 3 ph | 2003 |

## 2011 YORK SHIPLEYS AVAILABLE

| Unit  | HP/PPH | Year | Manufacturer | Fuel           | Type  | Pressure | Controls |
|-------|--------|------|--------------|----------------|-------|----------|----------|
| SSB1  | 50 hp  | 2011 | York Shipley | (Low NOx) G/#2 | Steam | 150      | UL/CSD-1 |
| SSB2  | 70 hp  | 2011 | York Shipley | (Low NOx) G/#2 | Steam | 150      | UL/CSD-1 |
| SSB3  | 100XID | 2011 | York Shipley | (Low NOx) G/#2 | Steam | 150      | UL/CSD-1 |
| SSB4  | 150    | 2011 | York Shipley | (Low NOx) G/#2 | Steam | 150      | UL/CSD-1 |
| SSB5  | 175XID | 2011 | York Shipley | (Low NOx) G/#2 | Steam | 150      | UL/CSD-1 |
| SSB6  | 250XID | 2011 | York Shipley | (Low NOx) G/#2 | Steam | 150      | UL/CSD-1 |
| SSB7  | 300XID | 2011 | York Shipley | (Low NOx) G/#2 | Steam | 150      | UL/CSD-1 |
| SSB8  | 400XID | 2011 | York Shipley | (Low NOx) G/#2 | Steam | 150      | UL/CSD-1 |
| SSB9  | 500XID | 2011 | York Shipley | (Low NOx) G/#2 | Steam | 150      | UL/CSD-1 |
| SSB10 | 600XID | 2011 | York Shipley | (Low NOx) G/#2 | Steam | 250      | UL/CSD-1 |
| SSB11 | 800XID | 2011 | York Shipley | (Low NOx) G/#2 | Steam | 250      | UL/CSD-1 |

## WARE's 2011 Annual Partner Conference

WARE held its annual Partners Conference on May 3rd and 4th with 21 Partners in attendance representing 18 companies.

The Partners Conference was kicked off with a business meeting that was held on Tuesday afternoon which included an overview of the new EPA MACT Regulations and evolving burner technology. At the conclusion of the meeting, awards were given out for the outstanding performer of the year.

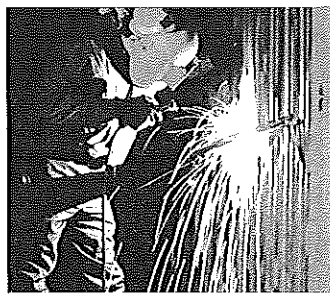
Ware distributed the High Fire award which goes to the partner with the highest total sales for the year.

The Main Flame award goes to Partners that have met their budgets.

Also handed out is the Ignition award that goes to the Partner that had the best start at first of the year.

At the conclusion of the business meeting the Partners were taken to Vincenzos, one of Louisville's premiere Italian restaurants for dinner. On Wednesday morning they were given a tour of WARE, our maintenance facility, The Valve Shop and our new "Super High Efficiency" Mobile Boiler Rooms. WARE then took their guests to historic Churchill Downs for a "Day at the Downs".

WARE appreciates all the hard work, time and effort of our Partners.



# The GRIME

## Regulator List

| Mnfr                             | Size   | Description | Parts Number                                |
|----------------------------------|--------|-------------|---|
| <b>Model 496 Regulators</b>      |        |             |   |
| SMS                              | 3/8"   | Regulator   | 496,3/8",1/8"Or.,Green Spg.(6"-14"WC)       |
| SMS                              | 3/8"   | Regulator   | 496,3/8",1/4"Or.,Green Spg.(6"-14"WC)       |
| SMS                              | 1/2"   | Regulator   | 496,1/2",1/8"Or.,Green Spg.(6"-14"WC)       |
| SMS                              | 1/2"   | Regulator   | 496,1/2",3/16"Or.,Green Spg.(6"-14"WC)      |
| SMS                              | 1/2"   | Regulator   | 496,1/2",1/4"Or.,Green Spg.(6"-14"WC)       |
| SMS                              | 1/2"   | Regulator   | 496,1/2",5/16"Or.,Green Spg.(6"-14"WC)      |
| SMS                              | 3/4"   | Regulator   | 496,3/4",1/8"Or.,Green Spg.(6"-14"WC)       |
| SMS                              | 3/4"   | Regulator   | 496,3/4",3/16"Or.,Green Spg.(6"-14"WC)      |
| SMS                              | 3/4"   | Regulator   | 496,3/4",1/4"Or.,Green Spg.(6"-14"WC)       |
| SMS                              | 3/4"   | Regulator   | 496,3/4",3/8"Or.,Green Spg.(6"-14"WC)       |
| SMS                              | 3/4"   | Regulator   | 496,3/4",1/2"Or.,Green Spg.(6"-14"WC)       |
| SMS                              | 1"     | Regulator   | 496,1",1/8"Or.,Green Spg.(6"-14"WC)         |
| SMS                              | 1"     | Regulator   | 496,1",3/16"Or.,Green Spg.(6"-14"WC)        |
| SMS                              | 1"     | Regulator   | 496,1",1/4"Or.,Green Spg.(6"-14"WC)         |
| SMS                              | 1"     | Regulator   | 496,1",3/8"Or.,Green Spg.(6"-14"WC)         |
| SMS                              | 1"     | Regulator   | 496,1",1/2"Or.,Green Spg.(6"-14"WC)         |
| <b>Model 143-80-2 Regulators</b> |        |             |   |
| Sensus                           | 3/4"   | Regulator   | 143-80-2,3/4",1/4"Or.,12"-28"WC (Orange)    |
| Sensus                           | 3/4"   | Regulator   | 143-80-2,3/4",1/4"Or.,6-14"WC (Green)       |
| Sensus                           | 3/4"   | Regulator   | 143-80-2,3/4",5/16"Or.,6-14"WC (Green)      |
| Sensus                           | 3/4"   | Regulator   | 143-80-2,3/4",5/16"Or.,12"-28"WC (Orange)   |
| Sensus                           | 3/4"   | Regulator   | 143-80-2,3/4",1/2"Or.,6-14"WC (Green)       |
| Sensus                           | 3/4"   | Regulator   | 143-80-2,3/4",1/2"Or.,12"-28"WC (Red)       |
| Sensus                           | 1"     | Regulator   | 143-80-2,1",1/4"Or.,6-14"WC (Green)         |
| Sensus                           | 1"     | Regulator   | 143-80-2,1",1/4"Or.,12"-28"WC (Orange)      |
| Sensus                           | 1"     | Regulator   | 143-80-2,1",5/16"Or.,6-14"WC (Green)        |
| Sensus                           | 1"     | Regulator   | 143-80-2,1",5/16"Or.,12"-28"WC (Orange)     |
| Sensus                           | 1"     | Regulator   | 143-80-2,1",1/2"Or.,6-14"WC (Green)         |
| Sensus                           | 1"     | Regulator   | 143-80-2,1",1/2"Or.,12"-28"WC (Orange)      |
| Sensus                           | 1 1/4" | Regulator   | 143-80-2,1 1/4",1/4",6-14"WC (Green)        |
| Sensus                           | 1 1/4" | Regulator   | 143-80-2,1 1/4",1/4"Or.,12"-28"WC (Orange)  |
| Sensus                           | 1 1/4" | Regulator   | 143-80-2,1 1/4",5/16",6-14"WC (Green)       |
| Sensus                           | 1 1/4" | Regulator   | 143-80-2,1 1/4",5/16"Or.,12"-28"WC (Orange) |
| Sensus                           | 1 1/4" | Regulator   | 143-80-2,1 1/4",1/2",6-14"WC (Green)        |
| Sensus                           | 1 1/4" | Regulator   | 143-80-2,1 1/4",1/2"Or.,12"-28"WC (Orange)  |

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# WARE buys used boilers

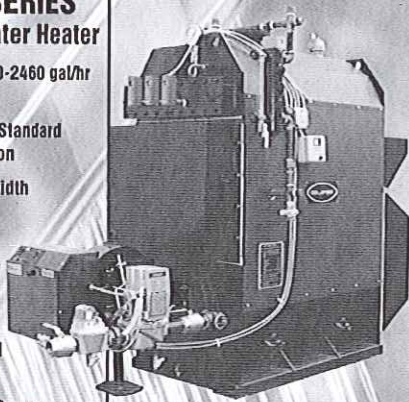
All regulators are in stock

| Mnfr                             | Size   | Description | Parts Number                              |
|----------------------------------|--------|-------------|---|
| <b>Model 243-8-2 Regulators</b>  |        |             |   |
| Sensus                           | 1 1/4" | Regulator   | 243-8-2,1 1/4",3/8"Or.,6-14" WC (Grn/Blk) |
| Sensus                           | 1 1/4" | Regulator   | 243-8-2,1 1/4",3/4"Or.,6-14" WC (Grn/Blk) |
| Sensus                           | 1 1/2" | Regulator   | 243-8-2,1 1/2",3/8"Or.,6-14"WC (Grn/Blk)  |
| Sensus                           | 1 1/2" | Regulator   | 243-8-2,1 1/2",1/2"Or.,6-14"WC (Grn/Blk)  |
| Sensus                           | 1 1/2" | Regulator   | 243-8-2,1 1/2",3/4"Or.,6-14"WC (Grn/Blk)  |
| Sensus                           | 2"     | Regulator   | 243-8-2,2,"3/8"Or.,6-14"WC (Grn/Blk)      |
| Sensus                           | 2"     | Regulator   | 243-8-2,2,"1/2"Or.,6-14"WC (Grn/Blk)      |
| Sensus                           | 2"     | Regulator   | 243-8-2,2,"3/4"Or.,6-14"WC (Grn/Blk)      |
| Sensus                           | 2"     | Regulator   | 243-8-2,2,"1"Or.,6-14"WC (Grn/Blk)        |
| <b>Model 243-12-2 Regulators</b> |        |             |   |
| Sensus                           | 1 1/4" | Regulator   | 243-12-2,1-1/4",3/8"Or.,6-14" WC (Green)  |
| Sensus                           | 1 1/4" | Regulator   | 243-12-2,1-1/4",3/4"Or.,6-14" WC (Green)  |
| Sensus                           | 1 1/2" | Regulator   | 243-12-2,1-1/2",3/8"Or.,6-14"WC (Green)   |
| Sensus                           | 1 1/2" | Regulator   | 243-12-2,1-1/2",1/2"Or.,6-14"WC (Green)   |
| Sensus                           | 1 1/2" | Regulator   | 243-12-2,1-1/2",3/4"Or.,6-14"WC (Green)   |
| Sensus                           | 2"     | Regulator   | 243-12-2,2,"3/8"Or.,6-14"WC (Green)       |
| Sensus                           | 2"     | Regulator   | 243-12-2,2,"1/2"Or.,6-14"WC (Green)       |
| Sensus                           | 2"     | Regulator   | 243-12-2,2,"3/4"Or.,6-14"WC (Green)       |
| Sensus                           | 2"     | Regulator   | 243-12-2,2,"1"Or.,6-14"WC (Green)         |

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be all-inclusive, as boiler systems and equipment vary in design and operation. However, this list could be used as an outline in developing individual inspection and repair guidelines to fit many systems affected by flooding.

For more information, go to The National Board of boiler and Pressure Vessel Inspectors-News web site at: <http://www.nationalboard.org/Nationalboard/news/headlinenews/boilersafterflood.aspx>.

ing on site and therefore provide a faster turnaround for the customer.

During the normal valve repair process, the parts are disassembled and the loose parts are taken into the mobile unit for cleaning. The parts are cleaned in a contaminant free environment. The repair specialists even wear lint-free jumpsuits and gloves. Then, a black light is used which can easily detect grease or oil. If anything is found, a water-based environmentally-friendly solvent is used to remove any traces. After

cleaning, the parts can be reassembled, tested and inspected.

"When it comes to working with gases like oxygen, maintaining top-notch service and processes is not only important to keeping the equipment in working order, the meticulous service we provide is a matter of safety for the entire plant," said Fogarty.

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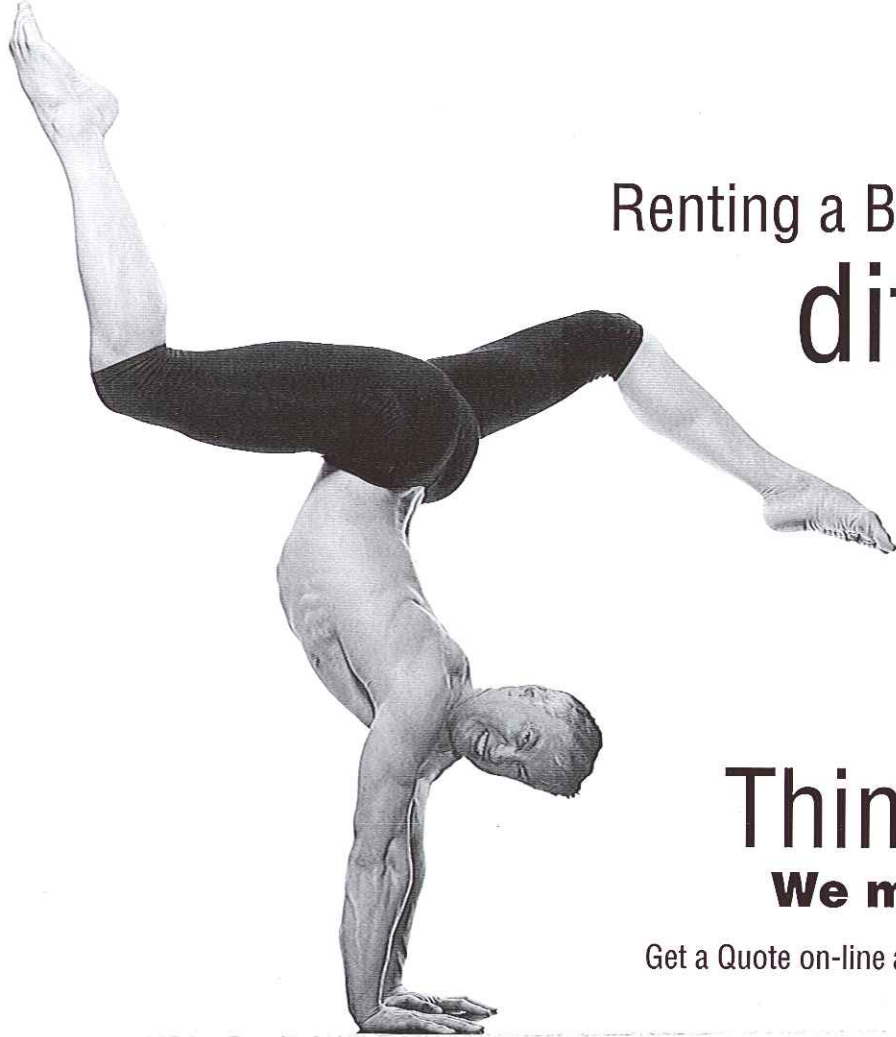
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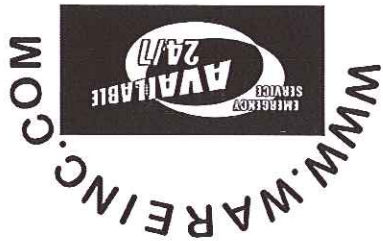
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