

D U C T M A T E

# Ultimate Doors



**ULTIMATE DOOR™**

U.S. Patent No. 6,505,441



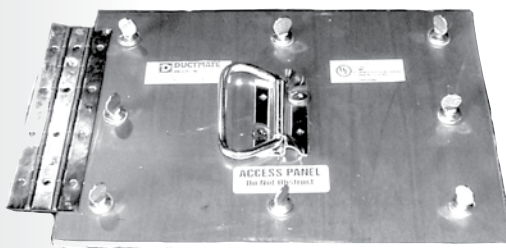
**ULTIMATE DOOR™  
ROUND**

U.S. Patent No. 6,505,441

Additional Patents Pending



**ULTIMATE DOOR II™  
WELD ON**



## U.L. Rated Grease Duct Doors

Easy to Install Sandwich® Design / Weld On Design

- UL 1978 Listed
- Dramatically reduces installation time
- No special tools required
- Union made in the U.S.A.
- Available in variety of sizes
- Grease and air tight
- Meets NFPA 96 Standards

**DUCTMATE®**  
Industries, Inc.

Access Doors



## DESCRIPTION

Sandwich® Access Door for grease duct or high temperature applications.

## BASIC USE

Ultimate Round Door™ is specifically designed for use in round grease duct. Manufactured to exact diameter tolerances to insure a tight seal. This door was designed for applications requiring UL 1978 Listing.

## SPECIAL CHARACTERISTICS

- UL 1978 Listed
- Easy to install sandwich® design with no special tools required
- Minimal penetration into the duct
- Dramatically reduces installation time
- No welding required
- Grease and air tight
- Meets NFPA 96 standards
- Union made in the U.S.A.
- Holes line up easily with adjustable fastening system
- Door is completely removable for easy cleaning
- Can be used with all types of duct wrap insulation systems
- No need for any clips
- No need for any drilling
- Unique collapsible handle design for easy installation

## TECHNICAL INFORMATION

### PANELS

The ULtimate Round Door™ consists of two layers of 11 gauge steel (Also available in Stainless 304). Steel door must be used on steel duct and stainless door must be used on stainless duct.

### GASKET

High Temperature ceramic board, rated to 2,300°. Completely covers the surface of the outer plate.

### FASTENERS

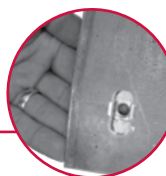
Two threaded studs are welded to the inner door. Bolts are spaced around the perimeter of the door.

### TEMPLATE

Self adhesive template is provided for the exact size of duct opening required.

## LIMITED PRODUCT WARRANTY

\*\* See Back Panel



Designed with a unique fastening system that adjusts to ensure easy and convenient installation.



## INSTALLATION INSTRUCTIONS



1. Peel backing off template and apply to duct in desired location.



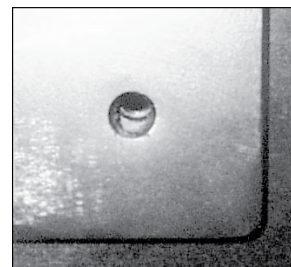
2. Cut around edge of the template.



3. Remove the permiter bolts from the door assembly and loosen the wingnuts, but do not remove.

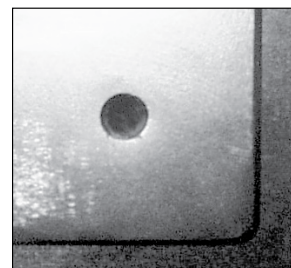


4. Insert the door into the opening at an angle and then center the door.



### 4a. NOT CENTERED

If you can see the wall of the duct through any of the corner holes, then it is not centered.



### 4b. CENTERED

If you can not see the wall of the duct through any of the corner holes, then it is centered.



5. Tighten center wingnuts and bolts with washers.

# ULTIMATE DOOR™

## DESCRIPTION

Sandwich® Access Door for grease duct or high temperature applications.

## BASIC USE

To provide easy access into high temperature air ducts and grease duct systems. This door was designed for applications requiring UL 1978 Listing.

## SPECIAL CHARACTERISTICS

- UL 1978 Listed
- Easy to install sandwich® design with no special tools required
- Minimal penetration into the duct
- Dramatically reduces installation time
- No welding required
- Grease and air tight
- Meets NFPA 96 Standards
- Union made in the U.S.A.
- Available in a variety of sizes
- Door is completely removable for easy cleaning
- Can be used with all types of duct wrap insulation systems
- No need for any clips
- No need for any drilling
- Unique collapsible handle design for easy installation

## TECHNICAL INFORMATION

### PANELS

The ULtimate Access Door™ consists of two layers of 11 gauge steel (Also available in Stainless 304). Steel door must be used on steel duct and stainless door must be used on stainless duct.

### GASKET

High Temperature ceramic board, rated to 2,300°. Completely covers the surface of the outer plate.

### FASTENERS

Threaded studs are welded to the inner door. One bolt in each corner.

### TEMPLATE

Self adhesive template is provided for the exact size of duct opening required.

### UL DOOR INSULATION PLATE

Manufactured from 16 gauge black iron.

(Sold separately or as a kit)

### UL DOOR INSULATION HARDWARE

Consists of 4, 8" extension studs, washers, wingnuts, "Do Not Obstruct" Sticker, and installation instructions.

(Sold separately or as a kit)

## LIMITED PRODUCT WARRANTY

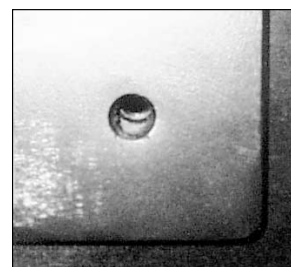
\*\* See Back Panel.



## INSTALLATION INSTRUCTIONS



1. Peel backing off template and apply to duct in desired location.

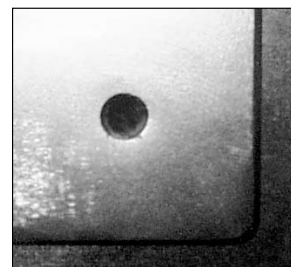


4a. NOT CENTERED

If you can see the wall of the duct through any of the corner holes, then it is not centered.



2. Cut around edge of template.



4b. CENTERED

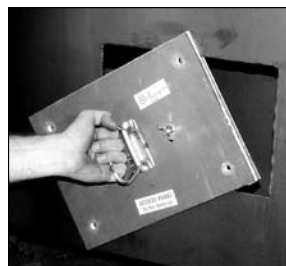
If you can not see the wall of the duct through any of the corner holes, then it is centered.



3. Remove the perimeter bolts from the door assembly and loosen the two wingnuts, but do not remove.\*



5. Tighten wingnuts and bolts with washers in corner holes.



4. Insert the door into the opening at an angle and then center the door.

\* If using a 6" sandwich door, all bolts and one wingnut must be removed. Insert the door into the opening at an angle and then center the door. Install wingnut & bolts.

# ULTIMATE DOOR II™

## WELD ON

### DESCRIPTION

Weld on Access Door for grease duct or high temperature applications.

### BASIC USE

To provide easy access into high temperature air ducts and grease duct systems. This door was designed for applications requiring UL 1978 Listing.

### SPECIAL CHARACTERISTICS

- UL 1978 Listed
- Available with optional hinge
- No special tools to remove
- Minimal penetration into the duct
- Dramatically reduces installation time
- Grease and air tight
- Meets NFPA 96 Standards
- Union made in the U.S.A.
- Available in a variety of sizes
- Can be used with all types of duct wrap insulation systems
- No need for any clips
- No need for any drilling
- Unique collapsible handle design for easy installation
- Top plate is completely removable for easy cleaning

### TECHNICAL INFORMATION

#### PANELS

The ULtimate II WELD ON™ access door consists of two layers of 11 gauge steel (Also available in stainless 304). Steel door must be used on steel duct and stainless door must be used on stainless duct.

#### GASKET

High Temperature ceramic board, rated to 2,300°.

#### FASTENERS

Zinc plated thumb bolts.

#### TEMPLATE

Self adhesive template is provided for the exact size of duct opening required.

#### UL DOOR INSULATION PLATE

Manufactured from 16 gauge black iron.

(Sold separately or as a kit)

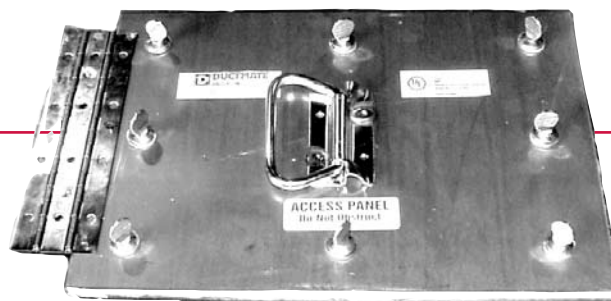
#### UL DOOR INSULATION HARDWARE

Consists of 4, 8" extension studs, washers, wingnuts, "Do Not Obstruct" Sticker, and installation instructions.

(Sold separately or as a kit)

### LIMITED PRODUCT WARRANTY

\*\* See Back Panel



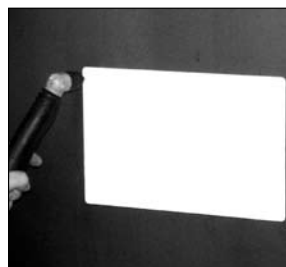
### INSTALLATION INSTRUCTIONS



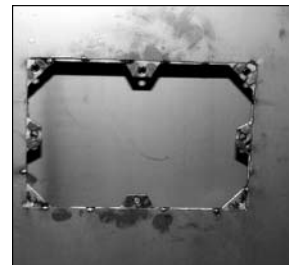
1. Peel backing off template and apply to duct in desired location.



5. Attach with tack welds 2" apart.



2. Cut around edge of template.



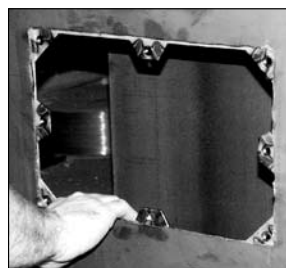
6. Correctly installed frame.



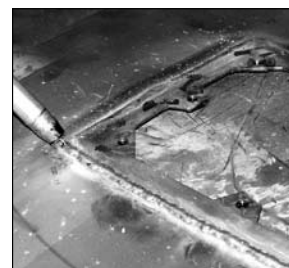
3. Remove the bolts and separate door from frame.



7. Install the bolts with washers. For hinged door, position hinge on duct wall and plug weld.



4. Center the frame around the opening.



\* If using the frame on the outside of the duct, a continuous liquid tight weld is required. Care should be taken to not warp the frame when welding.



## Packaging Information and Sizing Guidelines

### Ultimate Door™

\*Insert S4 for stainless steel and BI for black iron.

| Part #      | DESCRIPTION   | OPENING SIZE | DOOR SIZE | MINIMUM DUCT HEIGHT | PACKAGING QUANTITY | WEIGHT          |
|-------------|---|--------------|-----------|---------------------|--------------------|-----------------|
| D66UL*      | UL Door Only  | 6" x 6"      | 8" x 8"   | 13"                 | 5                  | 25.3 lbs.       |
| D66ULWS*    | UL Door with Insulation Kit and 12 x 12 Outer Plate   | 6" x 6"      | 8" x 8"   | 13"                 | 5                  | 45.0 lbs.       |
| D106UL*     | UL Door Only  | 10" x 6"     | 12" x 8"  | 14"                 | 5                  | 39.0 lbs.       |
| D106ULWS*   | UL Door with Insulation Kit and 16 x 12 Outer Plate   | 10" x 6"     | 12" x 8"  | 14"                 | 5                  | 63.0 lbs.       |
| D1010UL     | UL Door Only  | 10" x 10"    | 12" x 12" | 19"                 | 5                  | 57.0 lbs.       |
| D1010ULWS*  | UL Door with Insulation Kit and 16 x 16 Outer Plate   | 10" x 10"    | 12" x 12" | 19"                 | 4                  | 70.0 lbs.       |
| D128UL*     | UL Door Only  | 12" x 8"     | 14" x 10" | 17"                 | 5                  | 55.9 lbs.       |
| D128ULWS*   | UL Door with Insulation Kit and 18 x 14 Outer Plate   | 12" x 8"     | 14" x 10" | 17"                 | 4                  | 70.0 lbs.       |
| D1814UL*    | UL Door Only  | 18" x 14"    | 20" x 16" | 26"                 | 2                  | 48.0 lbs.       |
| D1814ULWS*  | UL Door with Insulation Kit and 24 x 20 Outer Plate   | 18" x 14"    | 20" x 16" | 26"                 | 2                  | 68.0 lbs.       |
| D2020UL*    | UL Door Only  | 20" x 20"    | 22" x 22" | 35"                 | 1                  | 36.0 lbs.       |
| D2020ULWS*  | UL Door with Insulation Kit and 26 x 26 Outer Plate   | 20" x 20"    | 22" x 22" | 35"                 | 1                  | 49.0 lbs.       |
| D2418UL*    | UL Door Only  | 24" x 18"    | 26" x 20" | 32"                 | 1                  | 39.6 lbs.       |
| D2418ULWS*  | UL Door with Insulation Kit and 30 x 24 Outer Plate   | 24" x 18"    | 26" x 20" | 32"                 | 1                  | 50.63 lbs.      |
| ULINSULKIT  | Kit 1: Four 8" extension studs, washers, wingnuts. Do not obstruct sticker and installation instructions. |              |           |                     | 5                  | 1.12 lbs.       |
| OP_UL*      | Kit 2   |              |           |                     | 1                  | Consult Factory |
| INSERT SIZE | UL Door Outer Plate   |              |           |                     |                    |                 |

### Ultimate Door II™ WELD ON

\*Insert S4 for stainless steel and BI for black iron. Items in **bold** refer to hinged doors

| Part #       | DESCRIPTION   | OPENING SIZE | DOOR SIZE | MINIMUM DUCT HEIGHT | PACKAGING QUANTITY | WEIGHT           |
|--------------|---|--------------|-----------|---------------------|--------------------|------------------|
| DW66UL*      | UL Door Only  | 6" x 6"      | 8" x 8"   | 8"                  | 5                  | 20.0 lbs.        |
| DWH66UL*     | UL Door Only  | 6" x 6"      | 8" x 8"   | 8"                  | 5                  | <b>23.0 lbs.</b> |
| DW66ULWS*    | UL Door with Insulation Kit and 12 x 12 Outer Plate   | 6" x 6"      | 8" x 8"   | 8"                  | 5                  | 26.7 lbs.        |
| DWH66ULWS*   | UL Door with Insulation Kit and 12 x 12 Outer Plate   | 6" x 6"      | 8" x 8"   | 8"                  | 5                  | <b>42.5 lbs.</b> |
| DW106UL*     | UL Door Only  | 10" x 6"     | 12" x 8"  | 8"                  | 5                  | 38.1 lbs.        |
| DWH106UL*    | UL Door Only  | 10" x 6"     | 12" x 8"  | 8"                  | 5                  | <b>32.5 lbs.</b> |
| DW106ULWS*   | UL Door with Insulation Kit and 16 x 12 Outer Plate   | 10" x 6"     | 12" x 8"  | 8"                  | 5                  | 34.95 lbs.       |
| DWH106ULWS*  | UL Door with Insulation Kit and 16 x 12 Outer Plate   | 10" x 6"     | 12" x 8"  | 8"                  | 5                  | <b>56.5 lbs.</b> |
| DW1010UL*    | UL Door Only  | 10" x 10"    | 12" x 12" | 12"                 | 5                  | 40.0 lbs.        |
| DWH1010UL*   | UL Door Only  | 10" x 10"    | 12" x 12" | 12"                 | 5                  | <b>40.9 lbs.</b> |
| DW1010ULWS*  | UL Door with Insulation Kit and 16 x 16 Outer Plate   | 10" x 10"    | 12" x 12" | 12"                 | 4                  | 53.0 lbs.        |
| DWH1010ULWS* | UL Door with Insulation Kit and 16 x 16 Outer Plate   | 10" x 10"    | 12" x 12" | 12"                 | 4                  | <b>55.0 lbs.</b> |
| DW128UL*     | UL Door Only  | 12" x 8"     | 14" x 10" | 10"                 | 5                  | 46.22 lbs.       |
| DWH128UL*    | UL Door Only  | 12" x 8"     | 14" x 10" | 10"                 | 5                  | <b>41.3 lbs.</b> |
| DW128ULWS*   | UL Door with Insulation Kit and 18 x 14 Outer Plate   | 12" x 8"     | 14" x 10" | 10"                 | 4                  | 53.0 lbs.        |
| DWH128ULWS*  | UL Door with Insulation Kit and 18 x 14 Outer Plate   | 12" x 8"     | 14" x 10" | 10"                 | 4                  | <b>53.7 lbs.</b> |
| DW1814UL*    | UL Door Only  | 18" x 14"    | 20" x 16" | 16"                 | 2                  | 32.6 lbs.        |
| DWH1814UL*   | UL Door Only  | 18" x 14"    | 20" x 16" | 16"                 | 2                  | <b>34.0 lbs.</b> |
| DW1814ULWS*  | UL Door with Insulation Kit and 24 x 20 Outer Plate   | 18" x 14"    | 20" x 16" | 16"                 | 2                  | 53.0 lbs.        |
| DWH1814ULWS* | UL Door with Insulation Kit and 24 x 20 Outer Plate   | 18" x 14"    | 20" x 16" | 16"                 | 2                  | <b>52.0 lbs.</b> |
| DW2020UL*    | UL Door Only  | 20" x 20"    | 22" x 22" | 22"                 | 1                  | 34.95 lbs.       |
| DWH2020UL*   | UL Door Only  | 20" x 20"    | 22" x 22" | 22"                 | 1                  | <b>36.9 lbs.</b> |
| DW2020ULWS*  | UL Door with Insulation Kit and 26 x 26 Outer Plate   | 20" x 20"    | 22" x 22" | 22"                 | 1                  | 34.95 lbs.       |
| DWH2020ULWS* | UL Door with Insulation Kit and 26 x 26 Outer Plate   | 20" x 20"    | 22" x 22" | 22"                 | 1                  | <b>37.0 lbs.</b> |
| DW2418UL*    | UL Door Only  | 24" x 18"    | 26" x 20" | 20"                 | 1                  | 23.5 lbs.        |
| DWH2418UL*   | UL Door Only  | 24" x 18"    | 26" x 20" | 20"                 | 1                  | <b>24.3 lbs.</b> |
| DW2418ULWS*  | UL Door with Insulation Kit and 30 x 24 Outer Plate   | 24" x 18"    | 26" x 20" | 20"                 | 1                  | 36.0 lbs.        |
| DWH2418ULWS* | UL Door with Insulation Kit and 30 x 24 Outer Plate   | 24" x 18"    | 26" x 20" | 20"                 | 1                  | <b>36.8 lbs.</b> |
| ULINSULKIT   | Kit 1: Four 8" extension studs, washers, wingnuts. Do not obstruct sticker and installation instructions. |              |           |                     | 5                  | 1.12 lbs.        |
| OP_UL*       | Kit 2   |              |           |                     | 1                  | Consult Factory  |
| INSERT SIZE  | UL Door Outer Plate   |              |           |                     |                    |                  |

### Ultimate Round Door™

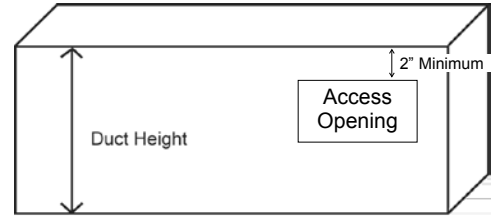
† Insert pipe diameter. (All doors are available for duct diameters of 12" and larger in 2" increments.)

\* Insert S4 for stainless steel and BI for black iron.

(Example: DR10612ULBI for a 10"x6" black iron door for 12" diameter duct.)

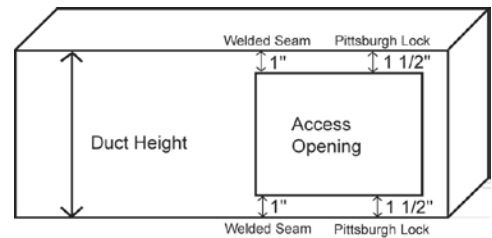
| Part #     | Description         | Opening Size | Door Size | Package Qty. | Weight    |
|------------|---------------------|--------------|-----------|--------------|-----------|
| DR106†UL*  | Round UL door 10X6  | 10" x 6"     | 12" x 8"  | 5            | 39.0 lbs. |
| DR128†UL*  | Round UL door 12X8  | 12" x 8"     | 14" x 10" | 5            | 55.9 lbs. |
| DR1814†UL* | Round UL door 18x14 | 18" x 14"    | 20" x 16" | 2            | 48.0 lbs. |

### Ultimate Door™



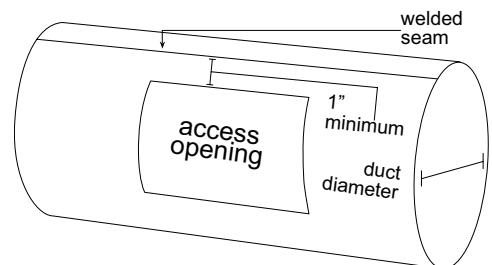
In order to use the minimum duct height, the door must be installed with it's longest dimension running horizontally along the length of the duct. If the minimum duct height is used, the top of the opening must be 2" from the top of the duct. For every inch over the minimum duct height, the opening can be lowered 1" from the top of the duct.

### Ultimate Door II™ WELD ON



Unlike the ULTIMate sandwich style door, the ULTIMate II WELD ON door requires no additional clearance. The duct only needs to be large enough to accommodate the frame. The frame extends 1" past each side of the opening, therefore a minimum of 1" clearance is required on each side of the opening when duct incorporates a welded longitudinal seal. To allow for manufacturing variances in the duct 1-1/2" clearance is recommended on each side of the opening when duct incorporates a Pittsburgh lock seam. Remember an internal longitudinal seam could take up extra space and prevent the frame from properly attaching in the case of a minimum size duct. In order to use the minimum duct height, the door must be installed with it's longest dimension running horizontally along the length of the duct.

### Ultimate Round Door™



The door frame extends 1" around the opening; therefore, a minimum of 1" clearance is required on either side of the welded seam. Cutting the opening too close to the welded seam may lead to leakage.

## **\*\* LIMITED PRODUCT WARRANTY**

Ductmate warrants that the ULtimate Doors™, when properly installed and maintained, will be free from defects in material and workmanship, and will comply with all written specifications made by Ductmate at the time of sale. Ductmate's warranty shall run for a period of one year from the date of manufacture.

### **Warranty Product Limitation:**

The warranty stated above is in lieu of all other warranties, express or implied, including but not limited to the implied warranties of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Although Ductmate may have suggested the product, or provided written or oral advice to the Purchaser, it is the Purchaser's responsibility to test and determine the suitability of the ULtimate Door™, the ULtimate Door II™, and the ULtimate Door Round™ for the intended use and purpose, and Purchaser and/or its customer assumes all risk and liability whatsoever regarding such suitability.

### **Limitation of Liability:**

In the event of a breach of the above warranty, Ductmate's sole obligation, and Purchaser's sole and exclusive remedy, shall be, at Ductmate's option, repair or replacement of any defective products, or refund of an applicable portion of the purchase price. Ductmate shall have no liability for costs of removal or reinstallation of the product. The Purchaser agrees that no other remedy, including but not limited to loss of profits, loss sales, injury to person or property, or any other special, incidental or consequential damages, shall be available to the Purchaser for any claim arising out of this Agreement, regardless of whether such claim is made in contract or in tort, including strict liability in tort. In no event will Ductmate be obligated to pay damages to the Purchaser in any amount exceeding the purchase price that the Purchaser paid to Ductmate for the allegedly defective product. This product must be used in conjunction with the correct duct diameter.

Listed  
88VF  
Fittings for Hood and Duct Penetration  
Grease Duct Access Door 



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724-258-0500  
FAX: 724-258-5494

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