

# Technical Data Sheet

## Heat Shield for DWKL

### HSDW

#### Product Line

HSDW – Heat Shield for DWKL Double Wall

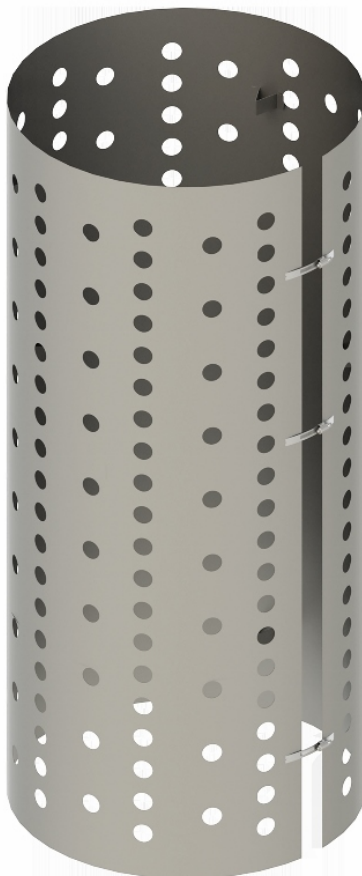


#### Applications

The Heat Shield is a light weight all-stainless ventilated shield intended to lower the skin temperature of an installed DWKL, in all variations (DWKL, DWKL-Lt, DWKL-Vt, & DWKL-Rx), double wall exhaust system where personnel might be able to touch the installed exhaust system.

It is applicable for all types of heating appliances and engines and does not affect the UL Listings of the DWKL.

Applicable for all fuels: gas, oil, wood, and any other solid fuels.



#### Purpose

To provide man-safe skin temperatures, without requiring expensive and heavy insulation.

Up to 1000°F continuous flue gas temperatures:

- 70°F rise skin temperature

Up to 1200°F continuous flue gas temperatures:

- 80°F rise skin temperature

Up to 1400°F continuous flue gas temperatures:

- 90°F rise skin temperature

#### Applicable UL Listings (and ULC)

- UL-103 Standard, Building Heating Appliance Chimney (Industrial Type 540°C Chimney)
- UL-103 Standard, Additional Type HT Listing
- UL-2561 Standard, 1400°F Chimney Listing (Industrial Type 760°C Chimney)
- UL-1978 Standard, Grease Duct (ULC-S662 Standard for Factory-Built Grease Ducts)
- UL-1738 Standard, Venting Systems for Gas-Burning Appliances, Categories II, III & IV (ULC-S636 Standard for Type BH Gas Venting Systems)
- UL-441 Standard, Gas Vents (ULC-S605 Standard for Gas Vents)
- UL-641 Standard, Type L Low-Temperature Vent (ULC-S609 Standard for Low-Temperature Vents Type L)

#### Materials

- Made of ASTM 304 or 430 stainless steel.
  - 3" through 24" = 0.025" thick
  - 26" through 36" = 0.035" thick
- All brackets and worm gears are ASTM 304 stainless steel.

#### Connection / Installation Details

1. The DWKL system must be completely assembled and supported before installing the HSDW.
2. Unwrap the Heat Shield. The Heat Shield is factory packaged and delivered in a tighter roll (typically inside a DWKL pipe length, or by itself with straps holding its cylindrical shape).
3. Place Heat Shield around the installed DWKL pipe.
4. Tighten the worm gears to a snug fit, the spacing clips will hold the Heat Shield in place in both horizontal and vertical installations.

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### Product Specifications

HSDW – Heat Shield for Double Wall pipe & fittings

<b>Diameters</b>	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, & 36
<b>Available Lengths</b>	Any length up to 48"
<b>Available Fittings</b>	Any elbow or tee, factory can precut or can be done in the field
<b>Available Accessories</b>	Extra spacers are available for cutting in the field

### Features

- All-stainless with 25-year warranty.
- Can be easily field cut as required for maximum field flexibility.
- Lighter weight and reduced footprint than heavy insulated options.
- Provides safety of man-safe skin temperatures.

### Controlling Dimensions

The HSDW provides a 1 ½" airspace, thus is 3" larger than the DWKL Outside Dimension (O.D.).

