

# Classroom Cabinetry and Accessories



Heating

Cooling

Fresh Air

Clean Air





# Zehnder – everything you need to create a comfortable, healthy and energy-efficient indoor climate

Heating, cooling, fresh and clean air: at Zehnder, you will find everything you need to create a comfortable, healthy and energy-efficient indoor climate. Zehnder’s wide and clearly structured portfolio can offer the right product for any project, be it private, public or commercial, new build or refurbishment. And where service is also concerned, you’ll find that Zehnder is “always around you.”

## Heating

At Zehnder, **Heating** doesn’t just come in the form of designer radiators. We offer solutions in all shapes and sizes, from radiant ceiling panels to heat pumps with integrated ventilation devices.

- Designer radiators
- Compact energy station with integrated heat pump
- Heating and cooling ceiling systems
- Comfortable indoor ventilation with heat recovery



## Cooling

Zehnder also offers sophisticated solutions for indoor **Cooling**. These range from cooling ceiling systems to comfortable indoor ventilation with a supply of pre-cooled fresh air.

- Heating and cooling ceiling systems
- Compact energy station with heat pump and brine pipe
- Comfortable indoor ventilation with geothermal heat exchanger for fresh air pre-cooling





## Fresh Air

Fresh Air – a product range with a long tradition at Zehnder. Zehnder Comfosystems provides products and solutions for comfortable indoor ventilation with heat recovery for houses and apartments, for new builds and for renovation projects.

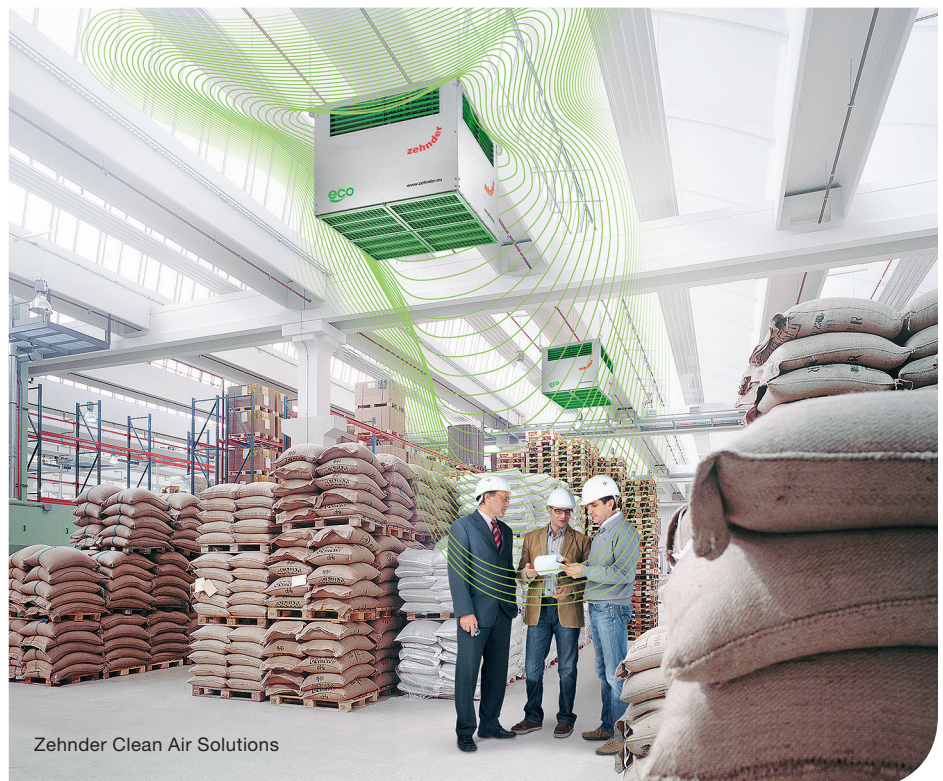
- Comfortable indoor ventilation
- Compact energy station with integrated ventilation device



## Clean Air

Zehnder Clean Air Solutions provide Clean Air in buildings particularly prone to dust. In residential applications, the comfortable indoor ventilation provided by Zehnder Comfosystems filters external pollutants out of the air.

- Comfortable indoor ventilation with integrated fresh-air filter
- Compact energy station with integrated fresh-air filter
- Systems for clean air









## **Strength, Flexibility and Value for the Classroom**

The Zehnder Rittling Classroom Cabinetry and Accessories product offering features high quality products constructed from furniture quality, cold-rolled steel. The sleek styling of our cabinetry and shelving is designed to work in conjunction with unit ventilators that are installed on the outside wall of school and university classrooms and libraries. Our modular design can be engineered in countless ways to accommodate new build designs and retrofit applications.

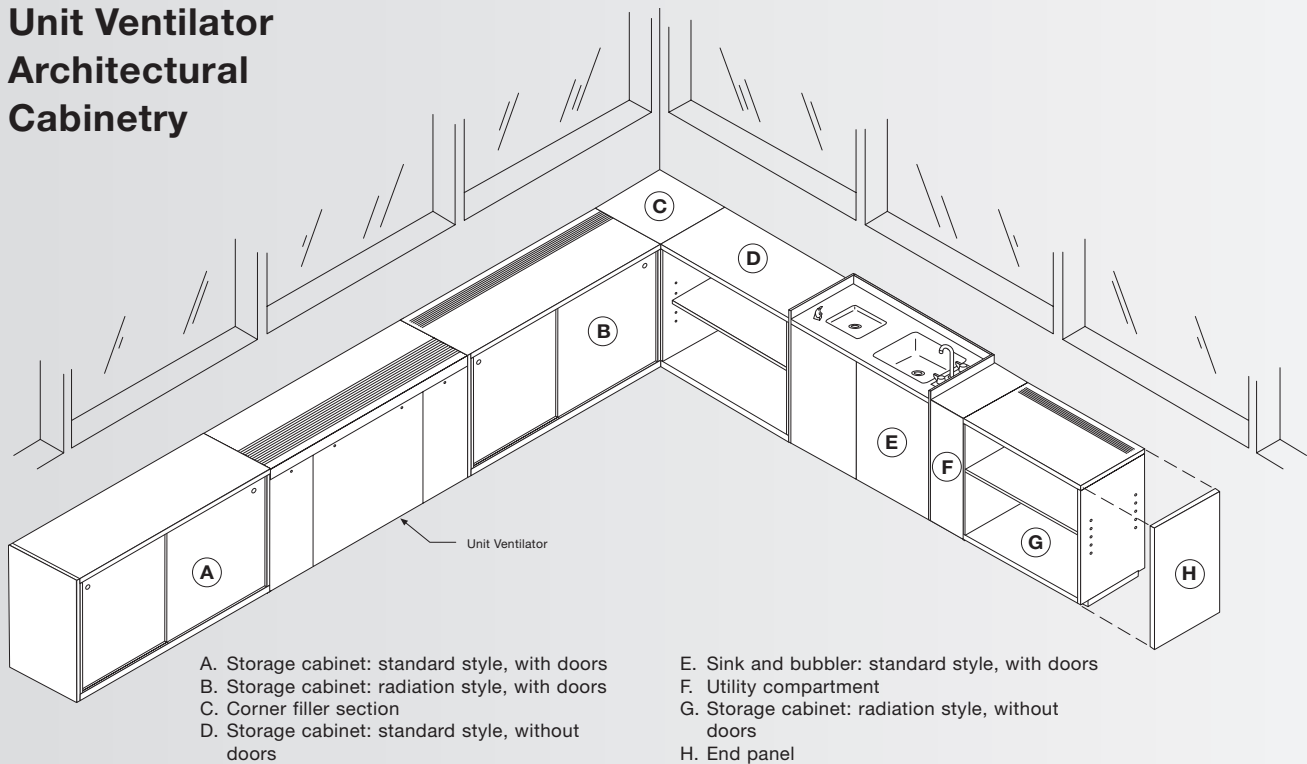
As a result of our continuous improvement, Zehnder Rittling cabinetry has been redesigned to decrease installation time for the mechanical contractor. Our cabinets have been reinforced for additional strength and finished with a durable epoxy powder coating to withstand the demands of the classroom environment. Custom color options are available, with our state-of-the-art paint system, and you are free to choose between textured steel or laminated tops.

Contact your Zehnder Rittling expert for assistance with complex specifications to keep your project running smoothly. Whether your installation is a classroom or a library, our philosophy remains the same: “If you can draw it, we can build it.”

|                                    |          |
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# Unit Ventilator Architectural Cabinetry



- A. Storage cabinet: standard style, with doors
- B. Storage cabinet: radiation style, with doors
- C. Corner filler section
- D. Storage cabinet: standard style, without doors

- E. Sink and bubbler: standard style, with doors
- F. Utility compartment
- G. Storage cabinet: radiation style, without doors
- H. End panel

## General

- Cabinets are manufactured from furniture-quality, cold-rolled steel
- Reinforced for additional strength to withstand the abuse of a classroom environment
- Complete cabinets are finished with a durable epoxy powder coating to withstand marring and scratches
- Available in four depths to accommodate and conceal piping

## Storage Cabinets

- Illustrated above as A, B, D and G
- Designed to store books and supplies along window walls in a classroom
- Feature charcoal bronze color, epoxy powder coated steel tops or laminated tops
- Available with open cabinets or with sliding doors; optional door locks available
- Available in four lengths to accommodate all types of unit ventilator applications
- Available in standard, radiation or draft stop (dampened) style cabinets

## C. Corner Filler Sections

- Feature charcoal bronze color, epoxy powder coated steel tops or laminated tops

## E. Sink and Bubblers

- Used in classrooms to maintain continuity of cabinetry units
- Feature single piece stainless steel tops
- Includes sliding doors; optional door locks available
- Available in standard, radiation or draft-stop style cabinets

## F. Utility Compartment

- Standard length: 12"
- Typically installed next to a unit ventilator to provide added service access
- Features charcoal bronze color epoxy powder coated steel tops

## H. End Panel

- Provides attractive finish to end of cabinetry

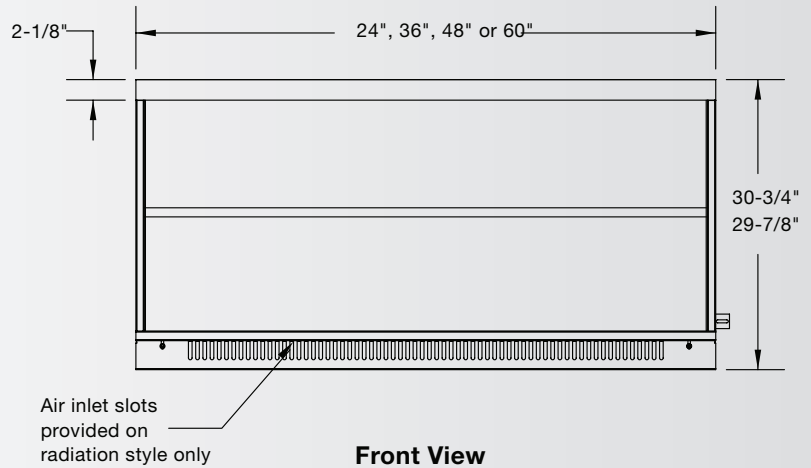
## Exhausters (not shown above)

- Maximum exhaust of 500 or 750 CFM
- Feature charcoal bronze color, epoxy powder coated steel tops
- Include removable front panel for access to motors and fans
- Thermally insulated motors
- Direct drive fans
- Integral three-speed switch
- Duct collar, where applicable
- Fully insulated for quiet operation

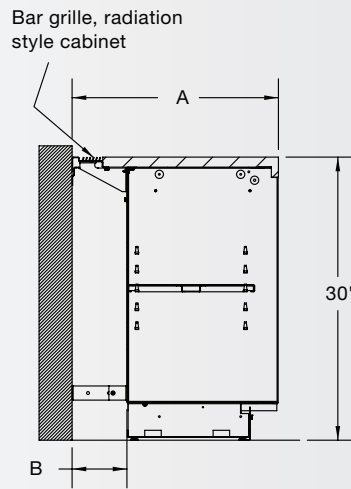


# Standard Cabinet

- Four available lengths: 24", 36", 48" and 60"
- Open cabinets or with optional sliding doors
- Available in standard, radiation or draft-stop style tops
- Laminate tops or steel tops with a charcoal bronze color, textured epoxy powder coated finish
- Epoxy powder coated finish to match unit ventilators or other cabinets
- Four heavy duty leveling legs that allow for 1" of vertical adjustment
- For use with unit ventilators

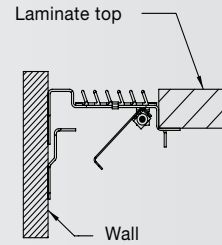


**Front View**



**Side View**

| Total Depth "A" | Piping Space "B" |
|-----------------|------------------|
| 16-5/8"         | 2-15/16"         |
| 19-5/8"         | 3-9/16"          |
| 21-7/8"         | 5-13/16"         |
| 28"             | 11-15/16"        |



**Draft-stop style cabinet: laminate top, bargrille with damper control**

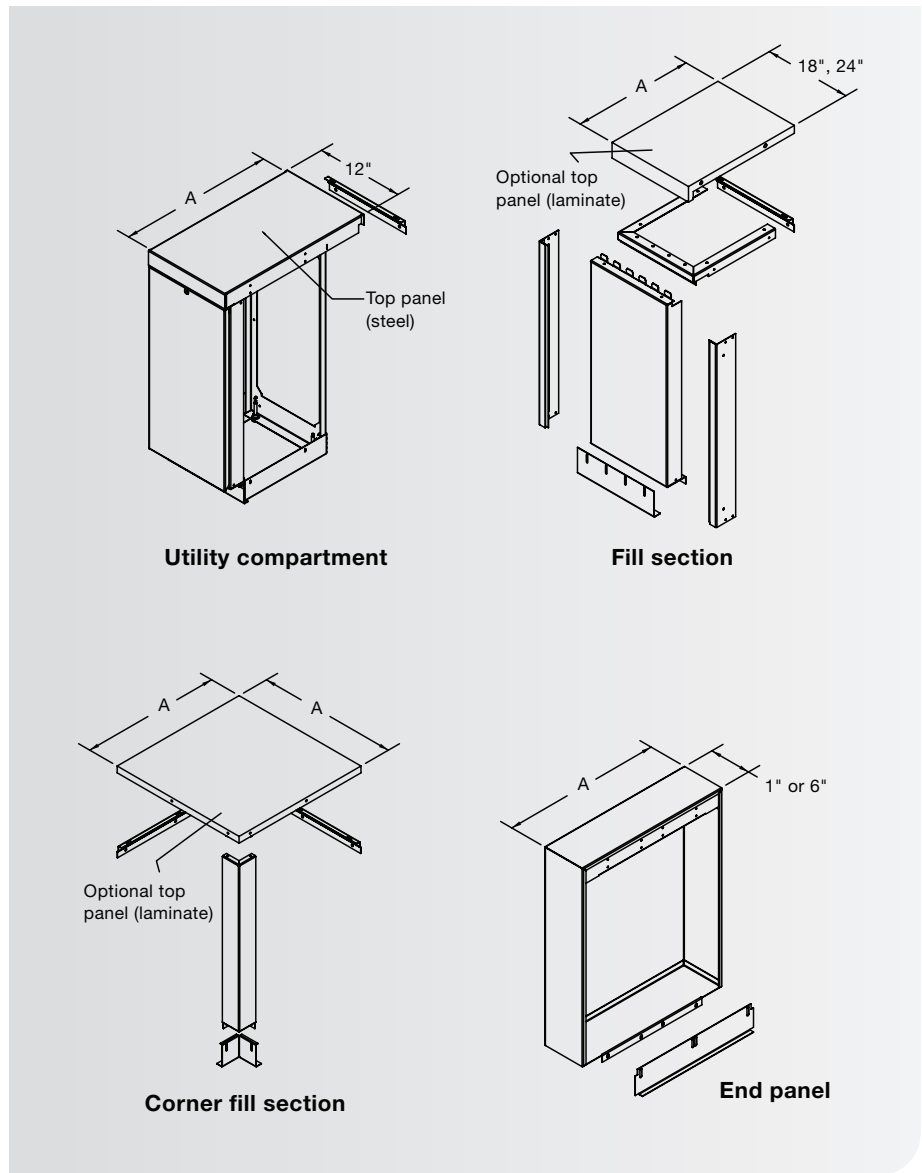




## Accessories

- Cabinet accessories allow continuous wall-to-wall coverage
- Fill section and corner section available with laminate or steel tops with a charcoal bronze color, textured epoxy powder coated finish
- Fill sections available in two lengths: 18" and 24"
- Utility section available with steel tops with a charcoal bronze color, textured epoxy coated finish
- End panels available in two lengths: 1" and 6"
- Epoxy powder coated to match unit ventilators or other cabinets

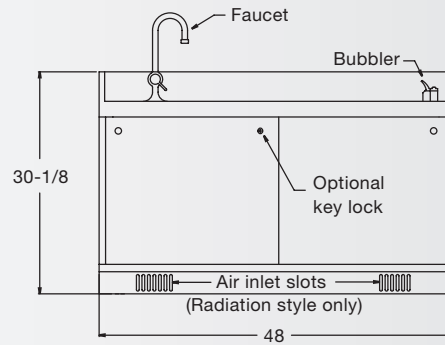
| Total Depth "A" |
|-----------------|
| 16-5/8"         |
| 19-5/8"         |
| 21-7/8"         |
| 28"             |



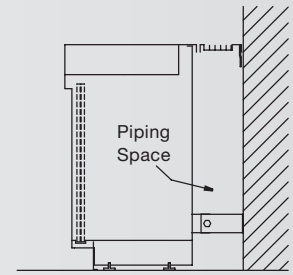
Sink and bubbler cabinet, 21-7/8" deep, radiation style, with doors

## Sink and Bubblers

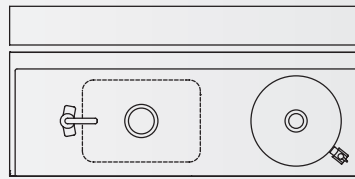
- One-piece 18-gauge stainless steel tops with a satin brushed finish
- Underside of top is fully coated to minimize noise and condensation
- ADA approved faucets and bubblers
- Available in four depths: 16-5/8", 19-5/8", 21-7/8" and 28"
- Available in standard, radiation or draft-stop style tops
- Epoxy powder coated to match unit ventilators or other cabinets



Front View



Side View

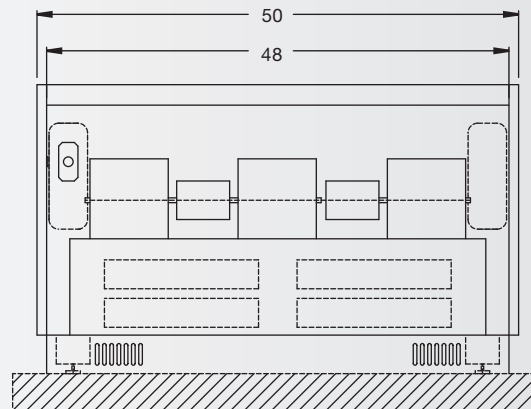


Top View

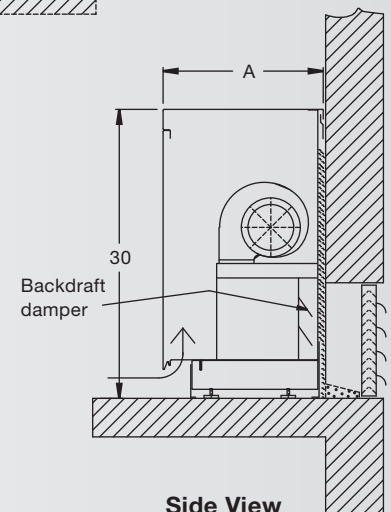
| Total Depth "A" | Piping Space "B" |
|-----------------|------------------|
| 16-5/8"         | -                |
| 19-5/8"         | 3-9/16"          |
| 21-7/8"         | 5-13/16"         |
| 28"             | 11-15/16"        |

## Exhauster

- Maximum exhaust flows of 500 or 750 CFM (@ 0.2" external static pressure)
- Removable 16-gauge front panel for access to blowers and motors
- 120/60/1 thermally insulated motors
- Direct drive blowers
- Integral three-speed switch
- Fully insulated cabinet to ensure quiet operation
- Duct collar included, where applicable
- Steel tops with a textured epoxy powder coated charcoal bronze color finish
- Epoxy powder coated to match unit ventilators or other cabinets



Front View



Side View

| Total Depth "A" |
|-----------------|
| 16-5/8"         |
| 19-5/8"         |
| 21-7/8"         |
| 28"             |



# Engineering Specifications

## All Cabinets

All cabinets to be fabricated from furniture-quality steel. Side panels shall have multiple shelf support hooks that allow for 8" of vertical adjustment. Cabinet base supports to be fabricated using 16-gauge steel and have four (4) 5/16" heavy-duty leveling legs that allow for 1" of vertical adjustment. Top of cabinet to be attached to wall with a field installed 18-gauge wall strip. Cabinets to have fully adjustable front skirts. All steel top cabinets to be supplied with a front steel alignment bar to provide positive horizontal alignment. All cabinets are to bolt together using factory supplied hardware. All cabinet parts to be finished with an epoxy powder coated finish to match the unit ventilator, other cabinets or as specified by an architect.

## Steel Tops

Steel tops to be fabricated from 16-gauge furniture-quality steel with full-length stiffeners for maximum strength and support. Tops are sanded before being finished with a textured powder coated in charcoal bronze color.

## Plastic Laminate Tops

Plastic laminate tops to be fabricated from 1" thick furniture-quality particleboard with plastic laminate covering the top and all edges. Tops to be the same length as the cabinet and will be factory installed. The laminate color to be selected by architect. Optional ship loose full length tops available.

## Sliding Doors

Sliding doors to be fabricated from 18-gauge furniture-quality steel. Doors to be easily removable without tools. Door sliding mechanism shall be of a durable polyethylene material no less than 0.060" thick. Optional key locks are available. Doors to be powder coated to match cabinet color.

## Draft-Stop Style Cabinet Tops

Draft-stop style cabinet tops to have an aluminum bar grille inlet at back of cabinet tops. The aluminum bar grille will have pencil-proof louvers a minimum of 0.070" thick with a powder coat finish to match cabinet top color. Inlet air volume to be controlled with an adjustable hinge damper.

## Radiation Style Cabinet Tops

Radiation style cabinet tops to have an aluminum bar grille outlet and slotted toe plate to allow for auxiliary finned tube radiation to be used behind the cabinet. Bar grille to have pencil-proof louvers a minimum of 0.070" thick with an epoxy powder coat finish to match cabinet top color.

## Filler Section Cabinets

Filler sections to be field cut to fit. Field cut edges to be supported by a double wall trim angle on the front and top of the filler section.

## Utility Compartments

Epoxy powder coated to match cabinet color.

## End Panels

End panels to be fabricated from 16-gauge steel. End panels will be epoxy powder coated to match cabinets or unit ventilator color.

## Stainless Steel Tops for Sink and Bubbler Cabinets

One-piece stainless steel top to be fabricated from 18-gauge 302 stainless steel with a satin brush #4 finish. All exposed joints, cracks and gaps are welded and ground smooth to provide a finished appearance. The underside of the top will be fully coated with a sound deadening material to minimize noise and condensation. Tops to have a seamlessly drawn sink bowl as standard with a bubbler bowl provided as an option. All faucets and bubblers to be ADA approved. Cabinet portion of sink and bubbler to be epoxy powder coated to match other cabinets.

## Fan Arrangement for Exhauster Cabinets

Units to be manufactured with two blower arrangements providing either up to 500 CFM or up to 750 CFM. Blowers to be galvanized steel centrifugal fan wheels in a painted steel housing. Motors to have integral thermal overload protection.

## Controls for Exhauster Cabinets

Units to be 115 volts, 60 hertz, single-phase. Units supplied with a factory mounted line voltage three-speed fan switch with integral OFF position. Three-speed switch to be mounted in a 2" x 4" junction box.

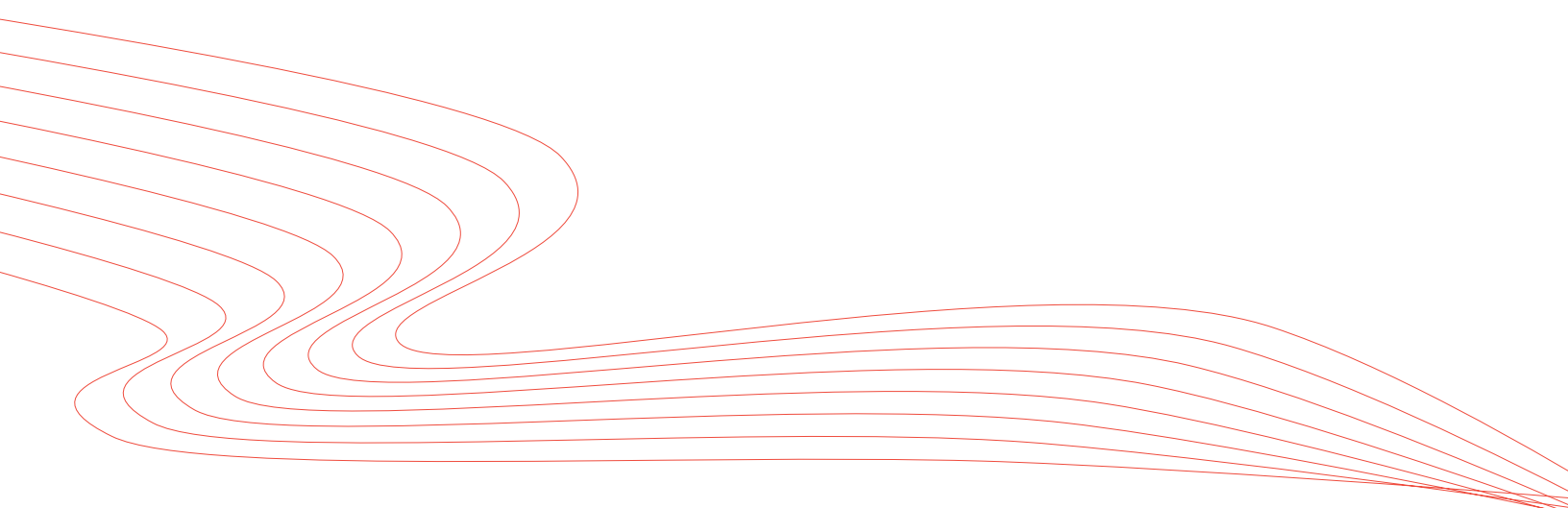
## Warranty

Zehnder Rittling guarantees its products to be free from defects in material and workmanship for a period of one year from date of shipment from our Buffalo, New York factory.

Should there be any defects in the goods, the purchaser should promptly notify Zehnder Rittling. Upon receipt of written consent from Zehnder Rittling, the purchaser shall return the defective good(s) to the factory for inspection with freight prepaid. If inspection shows the goods to be defective, Zehnder Rittling will, at its discretion, repair or replace the said item(s).

Defects arising from damage due to shipment, improper installation, negligence or misuse by others are not covered by this warranty.

This warranty is extended only to the original purchaser from Zehnder Rittling.





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