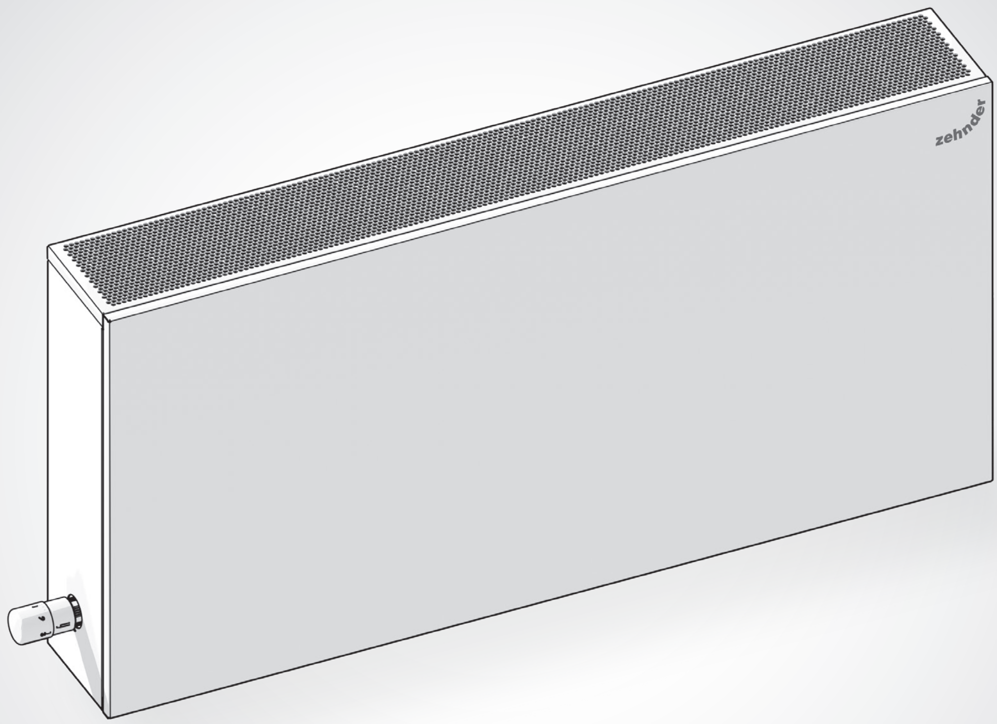
zehnder
always the best climate

# Zehnder Lateo

Decorative radiators
Technical Brochure



## ALWAYS THE BEST CLIMATE

**“We strive to improve the quality of life by providing the finest indoor climate solutions.”**

**Excellent team**
Every day we combine passion, expert knowledge and commitment to give you the best results.

**Great solutions, products and services**
Great products and unique service for an energy-efficient, healthy and comfortable indoor climate.

## WE ARE THE SPECIALISTS FOR A HEALTHY, COMFORTABLE AND ENERGY-EFFICIENT

The broad and clearly structured portfolio from the Zehnder Group is split into four product lines. Consequently, we can provide our customers with the right product, perfect system and matching service for all types of projects – from new build to renovations, single or multi-occupancy homes, as well as commercial projects. This variety ensures that our wealth of experience is continuously expanding, providing tangible added value to our customers on a daily basis.

**Decorative radiators**
Our individual decorative radiators for living and bathrooms make a home not only warmer but also more attractive. Created by renowned designers, they impress with excellent functionality.

## OUR BRANDS REPRESENT INNOVATION, QUALITY AND DESIGN

zehnder

The Zehnder brand offers excellent indoor climate solutions within the product lines of decorative radiators, comfortable indoor ventilation, heating and cooling ceiling systems and clean air solutions.

BISQUE

The Bisque brand offers beautiful but practical radiators in the most exciting styles, colours and shapes for homes and more.

**First choice for customers**
Always close to the needs of our customers, to grow with you and overcome all challenges together.

## INNOVATION OVER 4 GENERATIONS

MANUFACTURER OF THE WORLD'S **1st** STEEL AND BATHROOM RADIATORS

REPRESENTED IN MORE THAN **70** COUNTRIES

AROUND **3,500** EMPLOYEES

**16** OF OUR OWN PRODUCTION PLANTS IN EUROPE, NORTH AMERICA AND CHINA

INNOVATION SINCE **1895**

**1,200** PATENTS AND DESIGN RIGHTS THROUGHOUT THE WORLD

AROUND **20,000** TRAINED CUSTOMERS PER YEAR

## INDOOR CLIMATE

**Comfortable indoor ventilation**
Our comfortable indoor ventilation is energy-efficient and provides a healthy indoor climate. It promotes the wellbeing of the occupants and increases the value of the property.

**Heating and cooling ceiling systems**
Zehnder ceiling systems are convenient and energy-efficient for heating and cooling. They are perfectly attuned to the relevant environment.

**Clean air solutions**
Clean air systems from Zehnder reduce the level of dust in the air, create a healthier working environment and reduce the amount of cleaning required.

Greenwood AIRVAC

The Greenwood Airvac brand offers a range of low energy, smart residential ventilation solutions from intermittent extract fans to whole house ventilation with heat recovery.

## BEST QUALITY CERTIFICATES

Zehnder Group products are frequently awarded prizes for design and innovative technology.

iF DESIGN AWARD 2018

reddot design award winner 2018

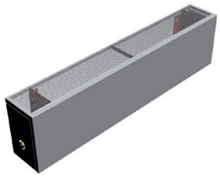
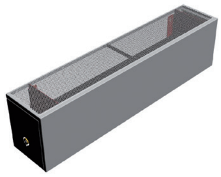
**General Sales and Delivery Conditions:**
Our General Sales and Delivery Conditions apply. You can find these under “Legal notice” on our homepage at www.zehnder.co.uk

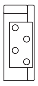
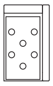
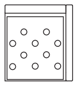
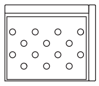
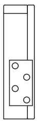
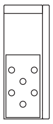
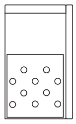
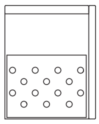
# Zehnder Lateo

| | Overview of models | Product description | Functional principle | Control unit | List prices | Special versions | Connections | Pressure loss | Technical data | Planning notes / Commissioning of LTF | Electric diagrams/ power consumption | Noise level | Installation points | Accessories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Zehnder Lateo** – Version with natural convection | | | | | | | | | | | | | | |
|  ■ Compact performance<br>■ Wall mounting<br>■ Wide range of models | 6 | 10 | 12 | - | 14 | 20 | 22 | 36 | 40 | - | - | - | 76 | 79 |

# Zehnder Lateo

## **Zehnder Lateo –** Version with natural convection

|  |  |  |  |
|---|---|---|---|
| LTN-...-008 | LTN-...-012 | LTN-...-018 | LTN-...-024 |

| Height mm | Depth mm | | | |
|---|---|---|---|---|
| | 80 | 120 | 180 | 240 |
| 200 |  LTN-020-008 |  LTN-020-012 |  LTN-020-018 |  LTN-020-024 |
| 300 |  LTN-030-008 |  LTN-030-012 |  LTN-030-018 |  LTN-030-024 |

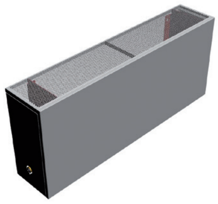
# Zehnder Lateo

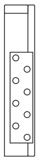
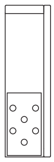
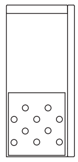
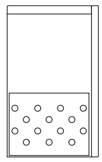
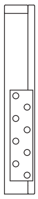
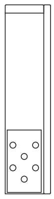
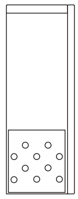
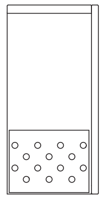
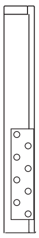
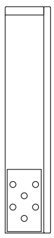
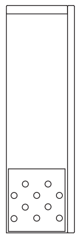
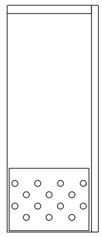
**Zehnder Lateo –** Version with natural convection


LTN-...-008


LTN-...-012


LTN-...-018


LTN-...-024

| Height mm | Depth mm | | | |
|---|---|---|---|---|
| | 80 | 120 | 180 | 240 |
| 400 |  LTN-040-008 |  LTN-040-012 |  LTN-040-018 |  LTN-040-024 |
| 500 |  LTN-050-008 |  LTN-050-012 |  LTN-050-018 |  LTN-050-024 |
| 600 |  LTN-060-008 |  LTN-060-012 |  LTN-060-018 |  LTN-060-024 |

# Zehnder Lateo


Zehnder Lateo

## Product description

Zehnder Lateo stands out as an attractive radiator solution for a wide variety of applications. In terms of appearance, the tried and tested design of a typical wall convector is continued: The casing is made of sheet steel with a smooth surface. Convection heat is emitted via the heat emitter, which is positioned behind the casing. A grille which is available with round or rectangular hole pattern or linear profiles, enhances the appearance and the safety of the convector and directs the airstream into the room. The G½" connections on the water side can be fitted on the bottom left or right and be concealed underneath of the casing. Zehnder Lateo is delivered with an easy-to-install wall mounting bracket. Standard version RAL 9016, but also available in other RAL colours or with print design as per your own graphic on request.

## Technical data

- Heat emitter made of copper pipes with fins made of pure aluminium painted in RAL 9005 jet black
- Stainless-steel casing and wall mounting bracket
- Grille with round hole pattern Ø 5.5 mm
- Operating pressure max. 10 bar
- Operating temperature max. 110 °C
- Powder-coating
- Thermal output tested according to EN 442

## Customisation options

- Connection left or right at bottom
- Grille with rectangular hole pattern or solid linear profiles
- Without cut-out for thermostat
- Valve set for bottom connection to the wall included in packaging
- Valve set for bottom connection to the floor included in packaging

## Benefits

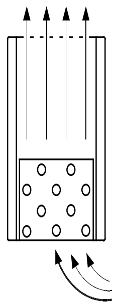
- Closed design due to compact construction
- Various grilles to choose from for preferred design
- Short response time means rooms are heated up rapidly
- High thermal output means large rooms are heated up rapidly
- Invisible integrated connections in the casing
- The wall mounting bracket makes it easy to install

## Scope of delivery

- Casing and grille powder coated RAL 9016
- Connections 2 x G½" female thread
- 1 x ⅛" air vent
- Pre-punched Ø 42 mm cut-out for thermostat head with cut-out for actuator cable
- Sheet steel grille with round hole pattern
- Mounting bracket for wall installation
- Cardboard packaging with protection corners

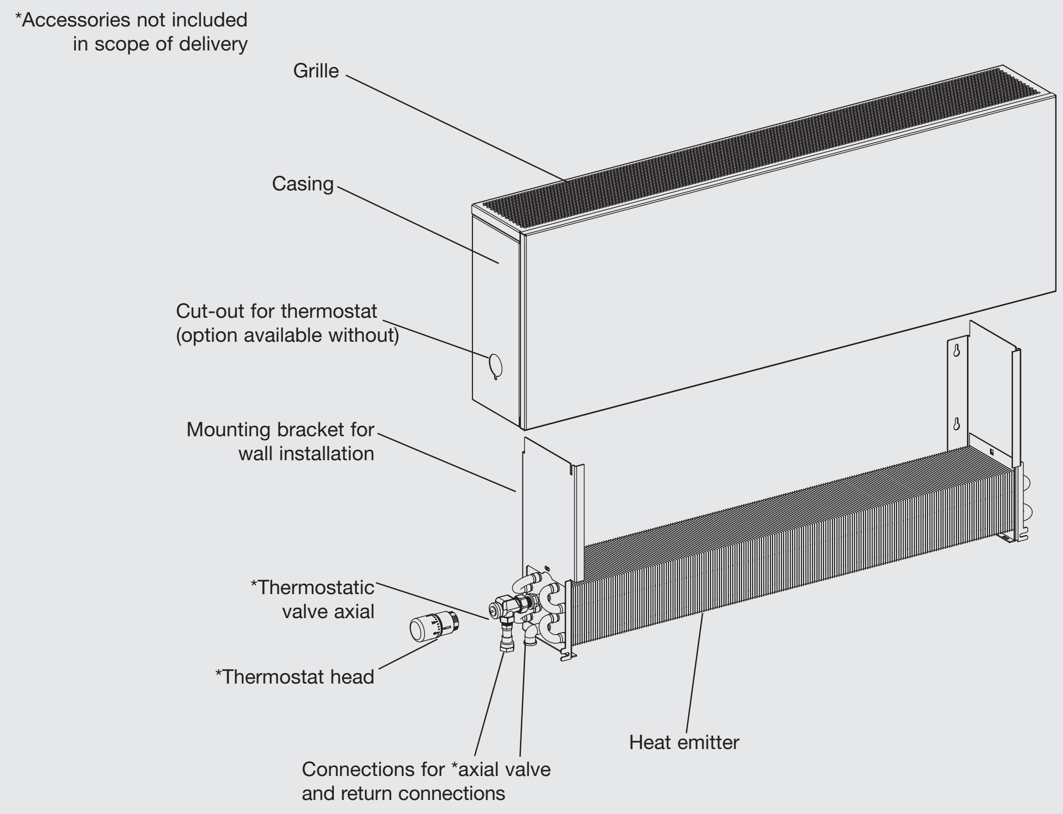
# Zehnder Lateo

## **Zehnder Lateo** – Version with natural convection



Nature provides the perfect example: Thermal lift (i.e. the rising warm air) allows birds and gliders to rise. Zehnder Lateo utilizes this natural principle, called convection, to provide contemporary and efficient heating technology : The interplay between cold air and rising hot air, particularly at window façades, produces a thermal wall that prevents the room cooling down and counteracts unpleasant draughts – and creates a warmth that feels particularly cosy and natural.

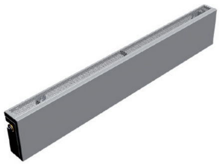
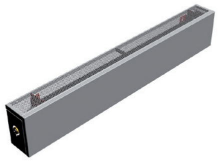
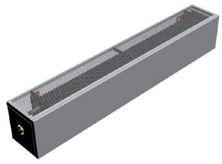
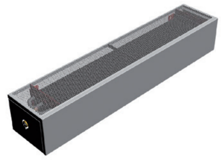
## **Zehnder Lateo** – Version with natural convection



# Zehnder Lateo

zehnder

**Φs** = Standard thermal output according to EN 442 (ΔT 50K: 75/65/20 °C)

| Height mm | 200 | | | |
|---|---|---|---|---|
| |  |  |  |  |
| **Model** | **LTN-020-008** | **LTN-020-012** | **LTN-020-018** | **LTN-020-024** |
| Depth mm<br>Exponent n | 80<br>1.449 | 120<br>1.451 | 180<br>1.460 | 240<br>1.474 |
| Length mm | $\Phi_s$ | $\Phi_s$ | $\Phi_s$ | $\Phi_s$ |
| | W | W | W | W |
| 400 | 145 | 229 | 386 | 554 |
| 500 | 181 | 286 | 483 | 693 |
| 600 | 217 | 343 | 580 | 832 |
| 700 | 253 | 400 | 676 | 970 |
| 800 | 289 | 457 | 773 | 1109 |
| 900 | 326 | 514 | 869 | 1247 |
| 1000 | 362 | 571 | 966 | 1386 |
| 1100 | 398 | 628 | 1062 | 1524 |
| 1200 | 434 | 686 | 1159 | 1663 |
| 1400 | 506 | 800 | 1352 | 1940 |
| 1600 | 579 | 914 | 1545 | 2217 |
| 1800 | 651 | 1028 | 1739 | 2495 |
| 2000 | 723 | 1143 | 1932 | 2772 |
| 2200 | 796 | 1257 | 2125 | 3049 |
| 2400 | 868 | 1371 | 2318 | 3326 |
| 2600 | 940 | 1485 | 2511 | 3603 |
| 2800 | 1013 | 1600 | 2704 | 3880 |
| Factor f* | ΔT 30K f2 = 0.477<br>ΔT 42.5K f3 = 0.790 | ΔT 30K f2 = 0.477<br>ΔT 42.5K f3 = 0.790 | ΔT 30K f2 = 0.474<br>ΔT 42.5K f3 = 0.789 | ΔT 30K f2 = 0.471<br>ΔT 42.5K f3 = 0.787 |

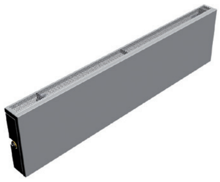
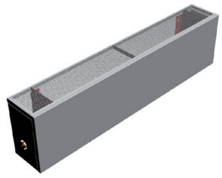
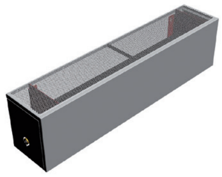
Surcharge for RAL colours** + 20% (** RAL9010, RAL9001, RAL1015, RAL6019, RAL9006, RAL7024, RAL8017, RAL9005)
Surcharge for other RAL colours on request +30%

*Factor to convert thermal output from ΔT 50K to:

f2 ΔT 30K = 55/45/20 °C
f3 ΔT 42.5K = 70/55/20 °C
Refer to the technical specifications for thermal outputs at other system temperatures

# Zehnder Lateo

Φs = Standard thermal output according to EN 442 (ΔT 50K: 75/65/20 °C)

| Height mm | 300 | | | |
|---|---|---|---|---|
| |  |  |  |  |
| **Model** | **LTN-030-008** | **LTN-030-012** | **LTN-030-018** | **LTN-030-024** |
| Depth mm | 80 | 120 | 180 | 240 |
| Exponent n | 1.428 | 1.410 | 1.410 | 1.430 |
| Length mm | $\Phi_s$ | $\Phi_s$ | $\Phi_s$ | $\Phi_s$ |
| | W | W | W | W |
| 400 | 175 | 272 | 461 | 641 |
| 500 | 219 | 339 | 576 | 801 |
| 600 | 262 | 407 | 691 | 961 |
| 700 | 306 | 475 | 806 | 1121 |
| 800 | 350 | 543 | 921 | 1281 |
| 900 | 394 | 611 | 1037 | 1442 |
| 1000 | 437 | 679 | 1152 | 1602 |
| 1100 | 481 | 747 | 1267 | 1762 |
| 1200 | 525 | 815 | 1382 | 1922 |
| 1400 | 612 | 950 | 1612 | 2242 |
| 1600 | 700 | 1086 | 1843 | 2563 |
| 1800 | 787 | 1222 | 2073 | 2883 |
| 2000 | 875 | 1358 | 2303 | 3203 |
| 2200 | 962 | 1493 | 2534 | 3524 |
| 2400 | 1050 | 1629 | 2764 | 3844 |
| 2600 | 1137 | 1765 | 2994 | 4164 |
| 2800 | 1225 | 1901 | 3225 | 4485 |
| Factor f* | ΔT 30K f2 = 0.482<br>ΔT 42.5K f3 = 0.793 | ΔT 30K f2 = 0.487<br>ΔT 42.5K f3 = 0.795 | ΔT 30K f2 = 0.487<br>ΔT 42.5K f3 = 0.795 | ΔT 30K f2 = 0.482<br>ΔT 42.5K f3 = 0.793 |

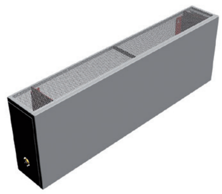
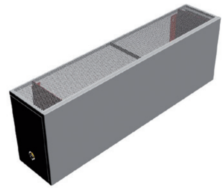
Surcharge for RAL colours** + 20% (** RAL9010, RAL9001, RAL1015, RAL6019, RAL9006, RAL7024, RAL8017, RAL9005)
Surcharge for other RAL colours on request +30%

*Factor to convert thermal output from ΔT 50K to:
f2 ΔT 30K = 55/45/20 °C
f3 ΔT 42.5K = 70/55/20 °C

Refer to the technical specifications for thermal outputs at other system temperatures

# Zehnder Lateo

$\Phi s$ = Standard thermal output according to EN 442 (ΔT 50K: 75/65/20 °C)

| Height mm | 400 | | | |
|---|---|---|---|---|
| |  |  |  |  |
| **Model** | **LTN-040-008** | **LTN-040-012** | **LTN-040-018** | **LTN-040-024** |
| Depth mm | 80 | 120 | 180 | 240 |
| Exponent n | 1.410 | 1.426 | 1.440 | 1.502 |
| Length mm | $\Phi_s$ | $\Phi_s$ | $\Phi_s$ | $\Phi_s$ |
| | W | W | W | W |
| 400 | 209 | 310 | 530 | 739 |
| 500 | 261 | 387 | 663 | 924 |
| 600 | 313 | 465 | 796 | 1109 |
| 700 | 366 | 542 | 928 | 1294 |
| 800 | 418 | 619 | 1061 | 1479 |
| 900 | 470 | 697 | 1193 | 1664 |
| 1000 | 522 | 774 | 1326 | 1848 |
| 1100 | 574 | 852 | 1458 | 2033 |
| 1200 | 627 | 929 | 1591 | 2218 |
| 1400 | 731 | 1084 | 1856 | 2588 |
| 1600 | 836 | 1239 | 2121 | 2957 |
| 1800 | 940 | 1394 | 2387 | 3327 |
| 2000 | 1045 | 1549 | 2652 | 3697 |
| Factor f* | ΔT 30K f2 = 0.487<br>ΔT 42.5K f3 = 0.795 | ΔT 30K f2 = 0.483<br>ΔT 42.5K f3 = 0.793 | ΔT 30K f2 = 0.479<br>ΔT 42.5K f3 = 0.791 | ΔT 30K f2 = 0.464<br>ΔT 42.5K f3 = 0.783 |

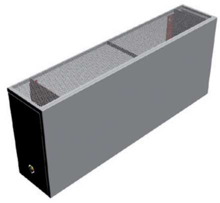
Surcharge for RAL colours** + 20% (** RAL9010, RAL9001, RAL1015, RAL6019, RAL9006, RAL7024, RAL8017, RAL9005)
Surcharge for other RAL colours on request +30%

*Factor to convert thermal output from ΔT 50K to:
f2 ΔT 30K = 55/45/20 °C
f3 ΔT 42.5K = 70/55/20 °C

Refer to the technical specifications for thermal outputs at other system temperatures

# Zehnder Lateo

Φs = Standard thermal output according to EN 442 (ΔT 50K: 75/65/20 °C)

| Height mm | 500 | | | |
|---|---|---|---|---|
| |  |  |  |  |
| **Model** | **LTN-050-008** | **LTN-050-012** | **LTN-050-018** | **LTN-050-024** |
| Depth mm | 80 | 120 | 180 | 240 |
| Exponent n | 1.410 | 1.430 | 1.440 | 1.500 |
| Length mm | $\Phi_s$ | $\Phi_s$ | $\Phi_s$ | $\Phi_s$ |
| | W | W | W | W |
| 400 | 231 | 345 | 599 | 853 |
| 500 | 289 | 432 | 748 | 1066 |
| 600 | 346 | 518 | 898 | 1279 |
| 700 | 404 | 604 | 1048 | 1492 |
| 800 | 462 | 691 | 1197 | 1705 |
| 900 | 519 | 777 | 1347 | 1919 |
| 1000 | 577 | 863 | 1497 | 2132 |
| 1100 | 635 | 950 | 1646 | 2345 |
| 1200 | 692 | 1036 | 1796 | 2558 |
| 1400 | 808 | 1209 | 2095 | 2984 |
| 1600 | 923 | 1381 | 2395 | 3411 |
| Factor f* | ΔT 30K f2 = 0.487<br>ΔT 42.5K f3 = 0.795 | ΔT 30K f2 = 0.482<br>ΔT 42.5K f3 = 0.793 | ΔT 30K f2 = 0.479<br>ΔT 42.5K f3 = 0.791 | ΔT 30K f2 = 0.465<br>ΔT 42.5K f3 = 0.784 |

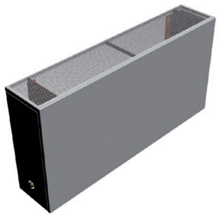
Surcharge for RAL colours** + 20% (** RAL9010, RAL9001, RAL1015, RAL6019, RAL9006, RAL7024, RAL8017, RAL9005)
Surcharge for other RAL colours on request +30%

*Factor to convert thermal output from ΔT 50K to:
f2 ΔT 30K = 55/45/20 °C
f3 ΔT 42.5K = 70/55/20 °C

Refer to the technical specifications for thermal outputs at other system temperatures

# Zehnder Lateo

**Φs** = Standard thermal output according to EN 442 (ΔT 50K: 75/65/20 °C)

| Height mm | 600 | | | |
|---|---|---|---|---|
| |  |  |  |  |
| **Model** | **LTN-060-008** | **LTN-060-012** | **LTN-060-018** | **LTN-060-024** |
| Depth mm | 80 | 120 | 180 | 240 |
| Exponent n | 1.462 | 1.375 | 1.385 | 1.430 |
| Length mm | $\Phi_s$ | $\Phi_s$ | $\Phi_s$ | $\Phi_s$ |
| | W | W | W | W |
| 400 | 250 | 380 | 668 | 983 |
| 500 | 312 | 475 | 835 | 1228 |
| 600 | 375 | 570 | 1002 | 1474 |
| 700 | 437 | 665 | 1168 | 1720 |
| 800 | 500 | 760 | 1335 | 1965 |
| 900 | 562 | 855 | 1502 | 2211 |
| 1000 | 625 | 950 | 1669 | 2457 |
| 1100 | 687 | 1045 | 1836 | 2702 |
| 1200 | 750 | 1140 | 2003 | 2948 |
| 1400 | 874 | 1330 | 2337 | 3439 |
| 1600 | 999 | 1520 | 2671 | 3931 |
| Factor f* | ΔT 30K f2 = 0.474<br>ΔT 42.5K f3 = 0.789 | ΔT 30K f2 = 0.495<br>ΔT 42.5K f3 = 0.800 | ΔT 30K f2 = 0.493<br>ΔT 42.5K f3 = 0.798 | ΔT 30K f2 = 0.482<br>ΔT 42.5K f3 = 0.793 |

Surcharge for RAL colours** + 20% (** RAL9010, RAL9001, RAL1015, RAL6019, RAL9006, RAL7024, RAL8017, RAL9005)
Surcharge for other RAL colours on request +30%

*Factor to convert thermal output from ΔT 50K to:
f2 ΔT 30K = 55/45/20 °C
f3 ΔT 42.5K = 70/55/20 °C

Refer to the technical specifications for thermal outputs at other system temperatures

# Zehnder Lateo

## Special versions

**Cut-out for thermostat head / thermal actuator**
Without side cut-out for thermostat head or thermal actuator

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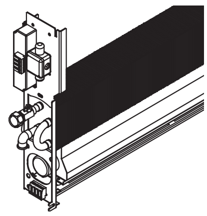
**Integrated power supply IP54** (splash water proof), 60 watts, 230 V / 50 Hz for Zehnder Lateo Neo: Placed beneath the casing, several wall convectors can be connected to the power supply of up to 60 watts as per dimensioning software or sizing in the section on planning notes and power consumption



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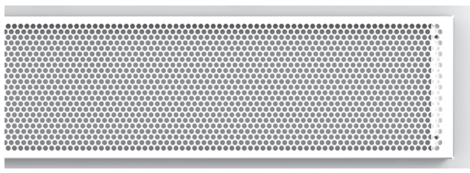
Various options with valve set included in scope of delivery (see connection types)
1 piece axial or corner thermostatic valve, M30 x 1.5 mm
2 pieces angled or straight return connections with pre-setting and barrier, G 1/2" internal thread for connecting to the heating circuit and 1/2" external thread for connecting to the heat emitter of the wall convector

---

Zehnder Lateo
Grille Ø 5.5 mm
- Sheet metal with round hole pattern (standard)
- Fixed, not removable



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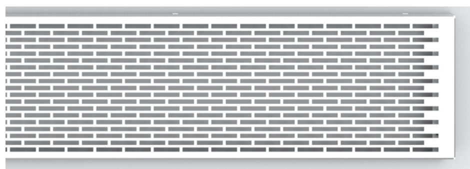
Zehnder Lateo
Grille 29.5 x 4.5 mm
- Sheet metal with rectangular hole pattern
- Fixed, not removable



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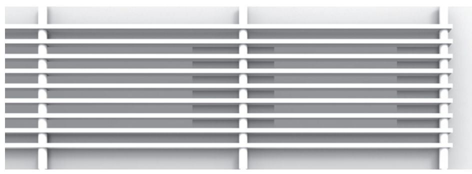
Zehnder Lateo
Grille 5x18 mm, with 12 mm spacing
- Linear profile, solid
- Fixed, not removable



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Zehnder Lateo
Colours
Full wall convector or combination of single components possible:
- Grille
- Casing
- Full wall convector in same colour

Surcharge for RAL colours (RAL9010, RAL9001, RAL1015, RAL6019, RAL9006, RAL7024, RAL8017, RAL9005) full wall convector, single component or at combination of components.

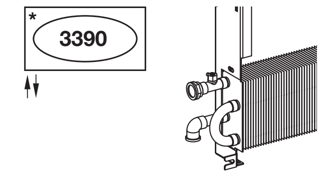
Surcharge for other RAL colours

Surcharge for front panel print design as per your graphic design

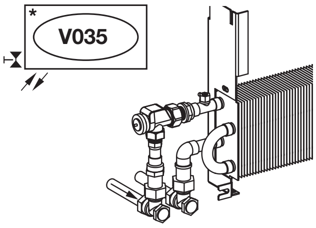
# Zehnder Lateo

| Connection type | | Dimensional drawing: Front view, side view and top view |
|---|---|---|
| **Standard connection** | | **Models LTN-...-008** |

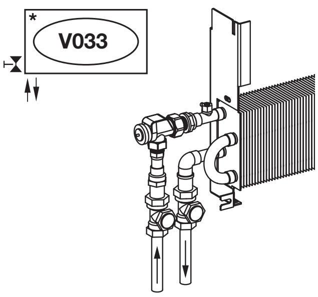
Lateral on left side to the bottom for wall or floor connection




**Please note: Low distance from wall to centre of connection! May provide G1/2" internal thread connection flush with finished wall for piping from wall.**



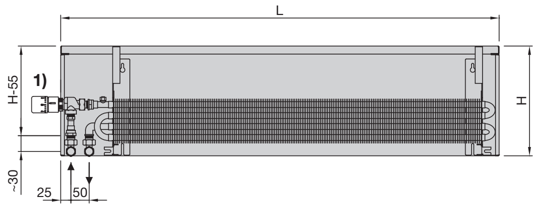

Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces angled return connections with G½" internal thread to be ordered with code V035.




Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces straight return connections G½" internal thread to be ordered with code V033.

1) **Thermostatic valve/head and return connection are not included in scope of delivery**

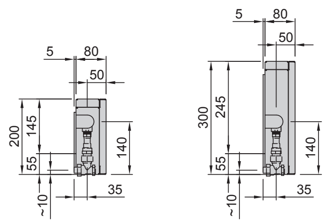
**Width 80 mm**




Height:

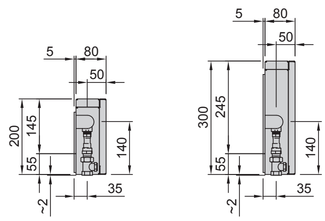
200 mm

300 mm



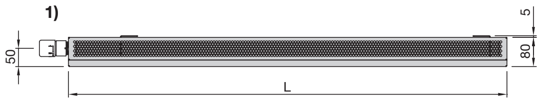

LTN-020-008

LTN-030-008




LTN-020-008

LTN-030-008




LTN-...-008

Optional:
One pipe system possible by using H-valve type with bypass.

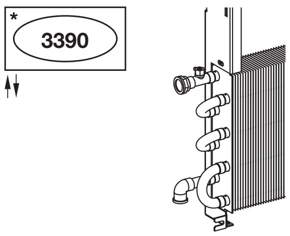
H = Height
L = Length
* = Air vent

Dimensions in mm

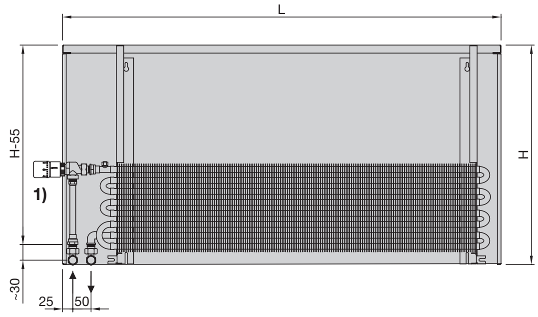
# Zehnder Lateo

| Connection type | Dimensional drawing: Front view, side view and top view |
|---|---|
| **Standard connection** | **Models LTN-...-008** |

Lateral on left side to the bottom for wall or floor connection

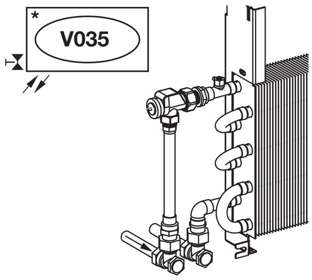


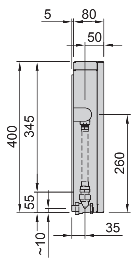

**Width 80 mm**



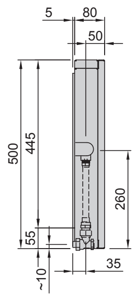

Height:

400 mm | 500 mm | 600 mm

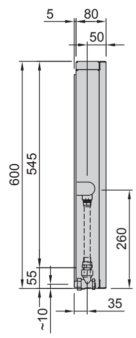



LTN-040-008

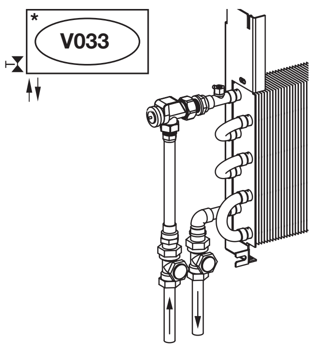


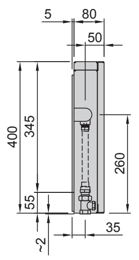

LTN-050-008



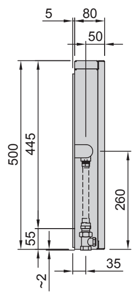

LTN-060-008

Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces angled return connections with G½" internal thread to be ordered with code V035.

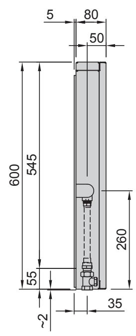



LTN-040-008

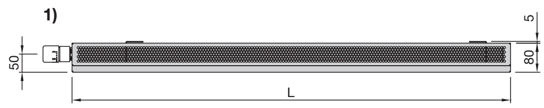



LTN-050-008




LTN-060-008

Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces straight return connections G½" internal thread to be ordered with code V033.




LTN-...-008

[1] **Thermostatic valve, head and return connections are not included in scope of delivery**

Optional:
One pipe system possible by using H-valve type with bypass.

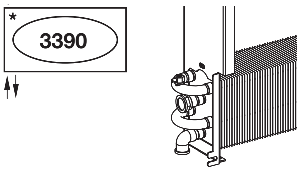
H = Height
L = Length
* = Air vent

Dimensions in mm

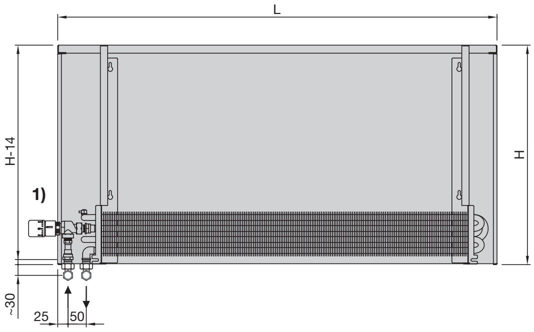
# Zehnder Lateo

| Connection type | | Dimensional drawing: Front view, side view and top view |
|---|---|---|
| **Standard connection** | | **Models LTN-...-012** |

Lateral on left side to the bottom for wall or floor connection

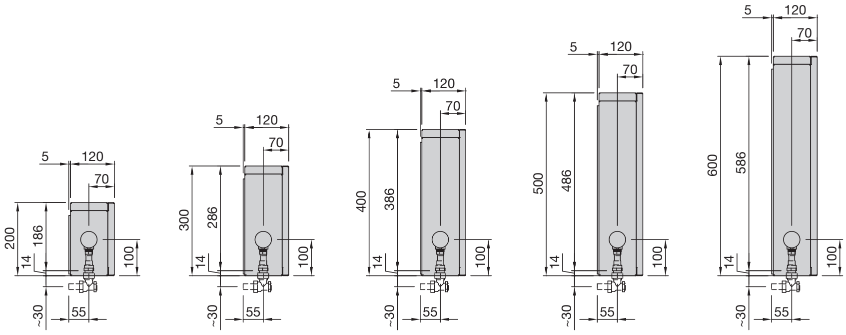



**Width 120 mm**

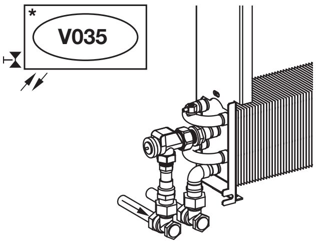



Height:

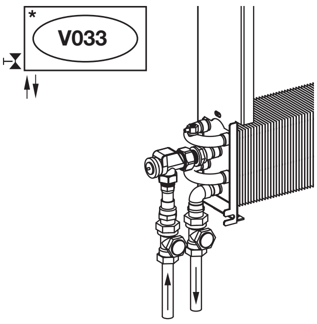
200 mm | 300 mm | 400 mm | 500 mm | 600 mm

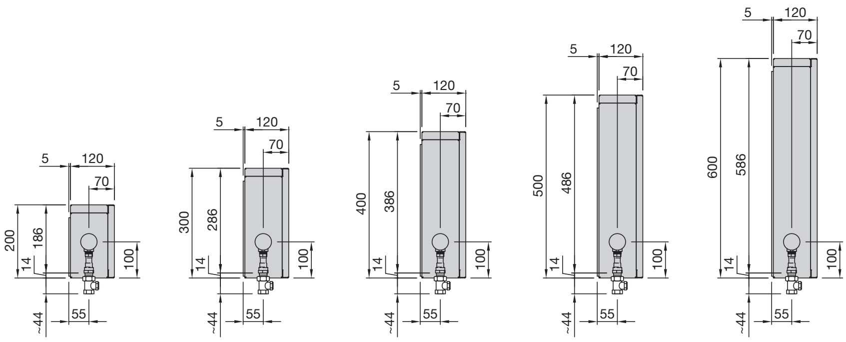



LTN-020-012 | LTN-030-012 | LTN-040-012 | LTN-050-012 | LTN-060-012



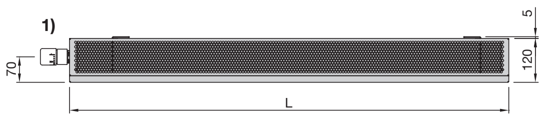

Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces angled return connections with G½" internal thread to be ordered with code V035.




LTN-020-012 | LTN-030-012 | LTN-040-012 | LTN-050-012 | LTN-060-012

Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces straight return connections G½" internal thread to be ordered with code V033.




LTN-...-012

1) **Thermostatic valve, head and return connections are not included in scope of delivery**

Optional:
One pipe system possible by using H-valve type with bypass.

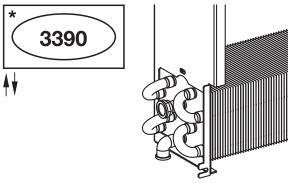
H = Height
L = Length
* = Air vent

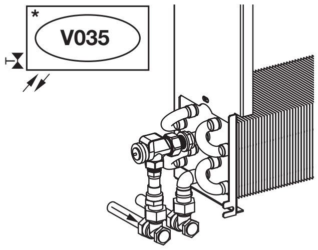
Dimensions in mm

# Zehnder Lateo

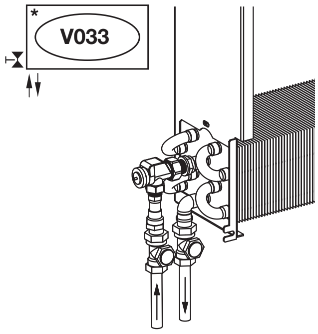
| Connection type | Dimensional drawing: Front view, side view and top view |
|---|---|
| **Standard connection** | **Models LTN-...-018** |

Lateral on left side to the bottom for wall or floor connection



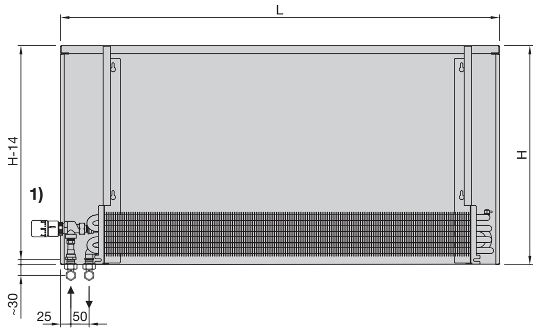

Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces angled return connections with G½" internal thread to be ordered with code V035.




Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces straight return connections G½" internal thread to be ordered with code V033.

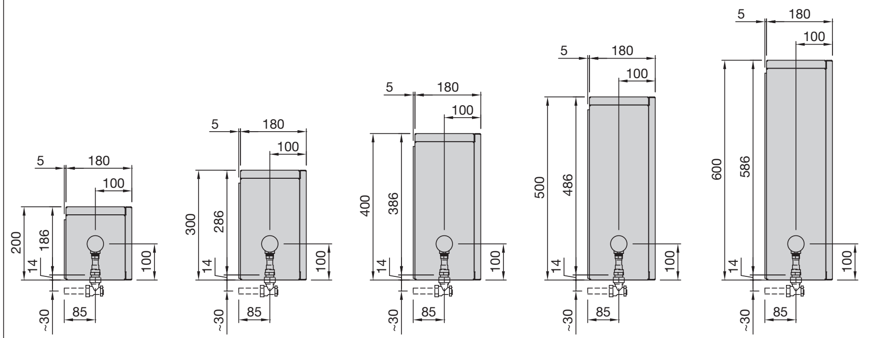
**1) Thermostatic valve, head and return connections are not included in scope of delivery**

**Width 180 mm**

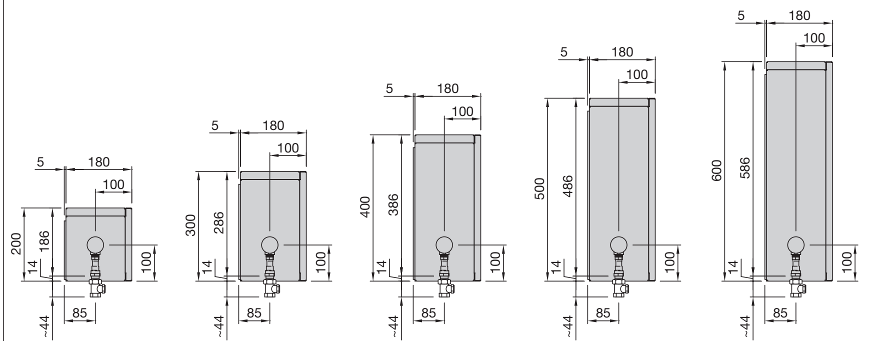



Height:

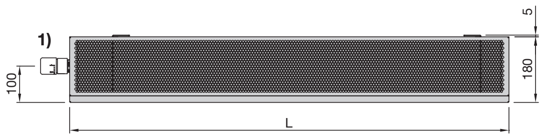
200 mm 300 mm 400 mm 500 mm 600 mm




LTN-020-018 LTN-030-018 LTN-040-018 LTN-050-018 LTN-060-018




LTN-020-018 LTN-030-018 LTN-040-018 LTN-050-018 LTN-060-018




LTN-...-018

Optional:
One pipe system possible by using H-valve type with bypass.

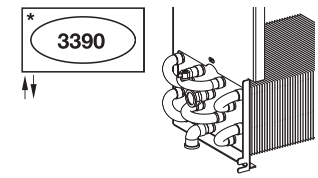
H = Height
L = Length
* = Air vent

Dimensions in mm

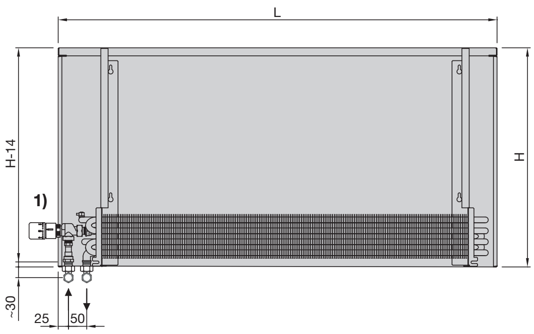
# Zehnder Lateo

| Connection type | | Dimensional drawing: Front view, side view and top view |
|---|---|---|
| **Standard connection** | | **Models LTN-...-024** |

Lateral on left side to the bottom for wall or floor connection

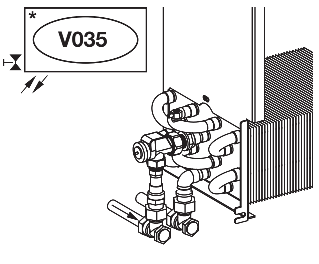


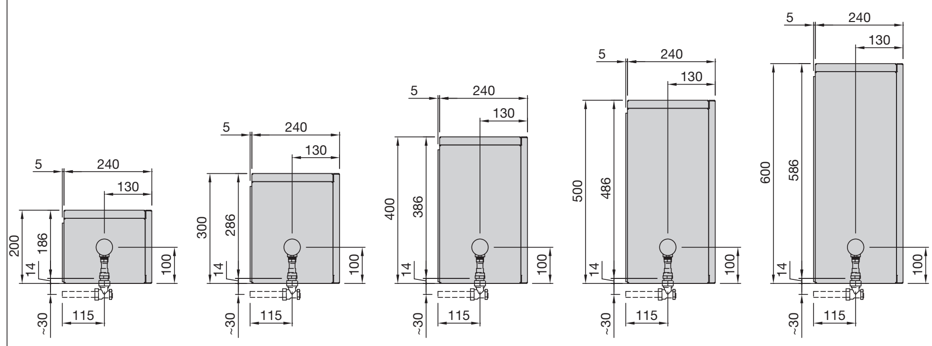

**Width 240 mm**




Height:

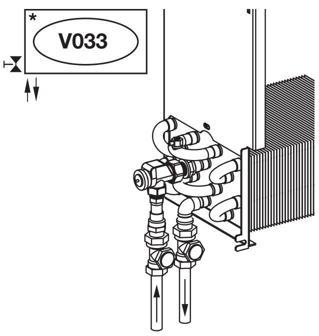
200 mm 300 mm 400 mm 500 mm 600 mm

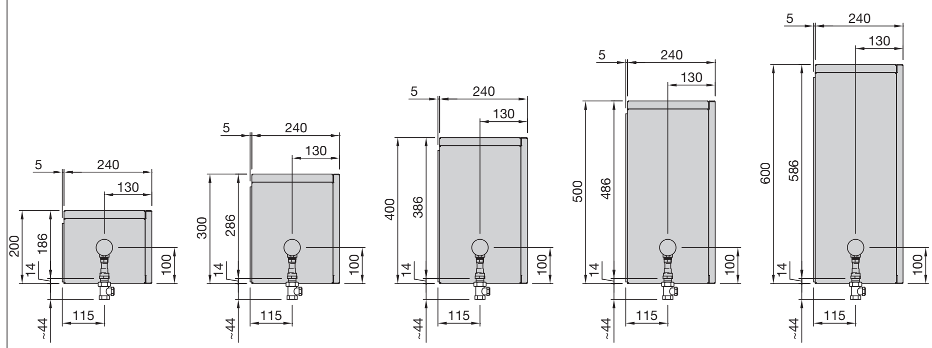



LTN-020-024 LTN-030-024 LTN-040-024 LTN-050-024 LTN-060-024

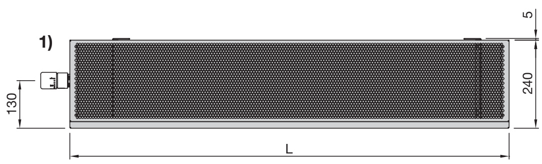
Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces angled return connections with G½" internal thread to be ordered with code V035.




LTN-020-024 LTN-030-024 LTN-040-024 LTN-050-024 LTN-060-024

Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces straight return connections G½" internal thread to be ordered with code V033.




LTN-...-024

[1] **Thermostatic valve, head and return connections are not included in scope of delivery**

Optional
One pipe system possible by using H-valve type with bypass.

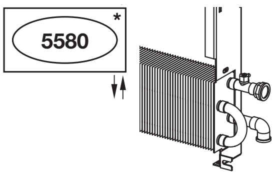
H = Height
L = Length
* = Air vent

Dimensions in mm

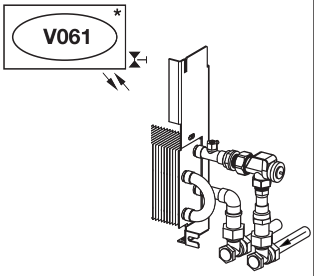
# Zehnder Lateo

| Connection type | Dimensional drawing: Front view, side view and top view |
| --- | --- |
| **Standard connection** | **Models LTN-...-008** |

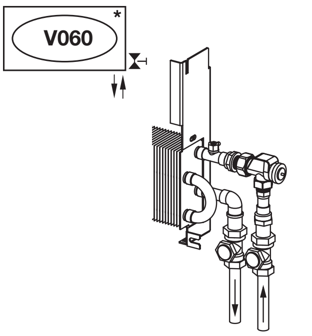
Lateral on right side to the bottom for wall or floor connection




**Please note: Low distance from wall to centre of connection! May the installer provide G1/2" internal thread connection flush with finished wall for piping from wall.**



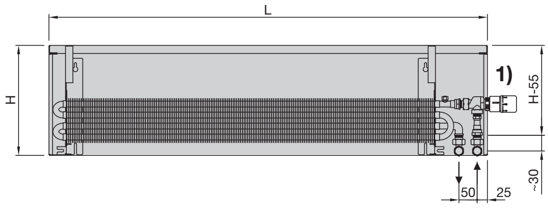

Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces angled return connections with G1/2" internal thread to be ordered with code V061.




Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces straight return connections G½" internal thread to be ordered with code V060.

**1) Thermostatic valve/head and return connection are not included in scope of delivery**

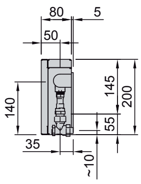
**Width 80 mm**



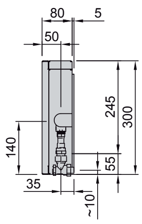

Height:

200 mm

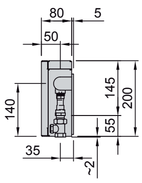
300 mm



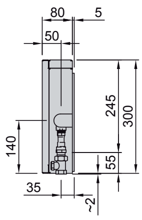

LTN-020-008



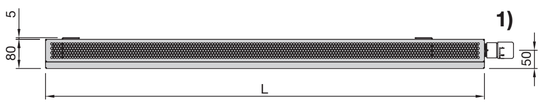

LTN-030-008




LTN-020-008




LTN-030-008




LTN-...-008

Optional:
One pipe system possible by using H-valve type with bypass.

H = Height
L = Length
* = Air vent

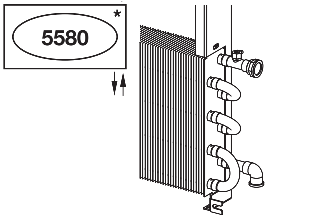
Dimensions in mm

# Zehnder Lateo

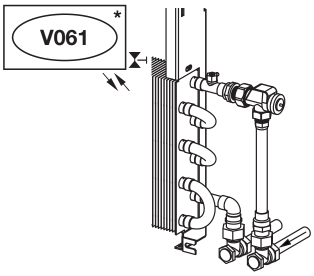
| Connection type | | Dimensional drawing: Front view, side view and top view |
|---|---|---|

## Standard connection

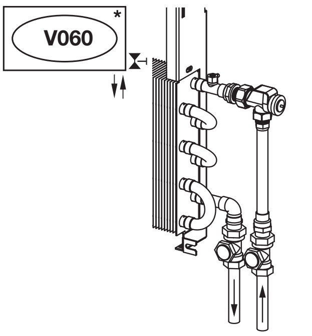
Lateral on right side to the bottom for wall or floor connection




**Please note: Low distance from wall to centre of connection! May the installer provide G1/2" internal thread connection flush with finished wall for piping from wall.**




Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces angled return connections with G½" internal thread to be ordered with code V061.

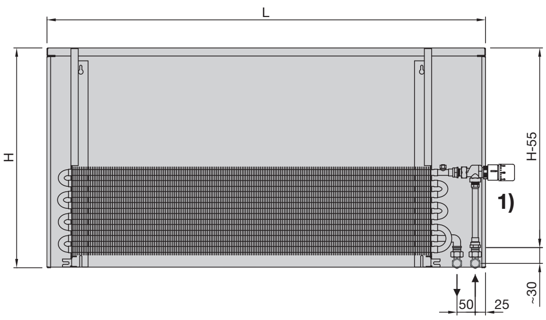



Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces straight return connections G½" internal thread to be ordered with code V060.

1) **Thermostatic valve, head and return connections are not included in scope of delivery**

## Models LTN-...-008

### Width 80 mm

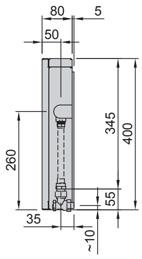



Height:

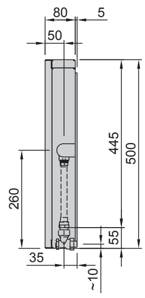
400 mm

500 mm

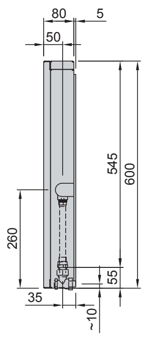
600 mm



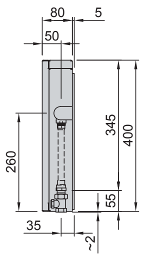

LTN-040-008



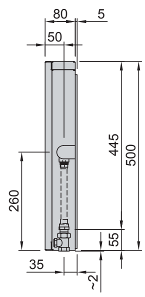

LTN-050-008



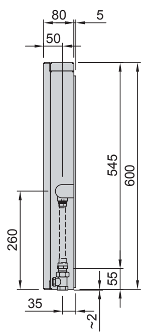

LTN-060-008



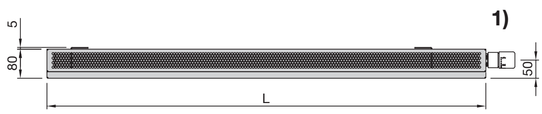

LTN-040-008




LTN-050-008




LTN-060-008




LTN-...-008

Optional:
One pipe system possible by using H-valve type with bypass.

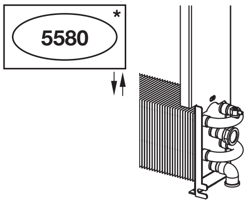
H = Height
L = Length
* = Air vent

Dimensions in mm

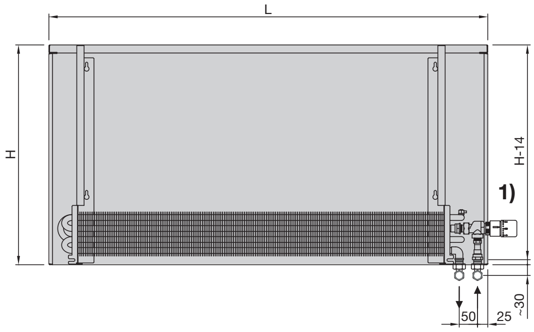
# Zehnder Lateo

| Connection type | Dimensional drawing: Front view, side view and top view |
|---|---|
| **Standard connection** | **Models LTN-...-012** |

Lateral on right side to the bottom for wall or floor connection

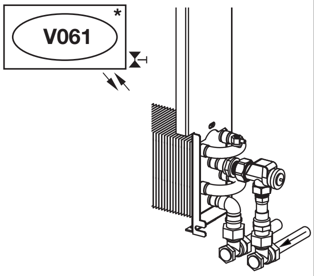


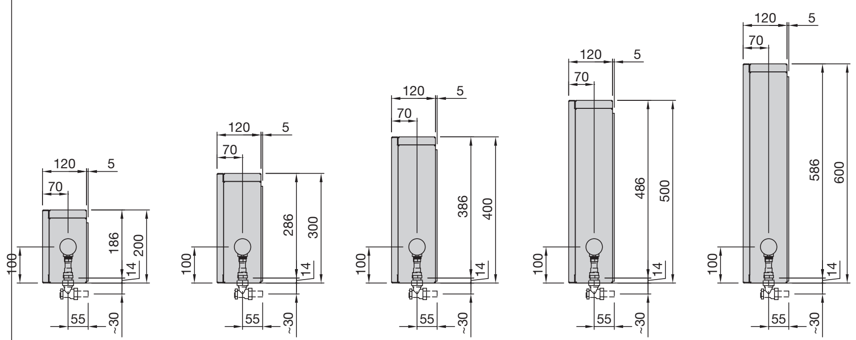

**Width 120 mm**




Height:

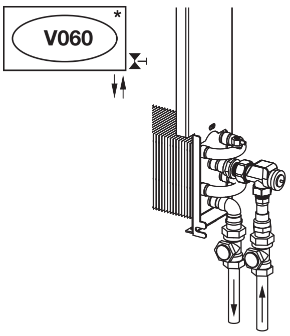
200 mm | 300 mm | 400 mm | 500 mm | 600 mm

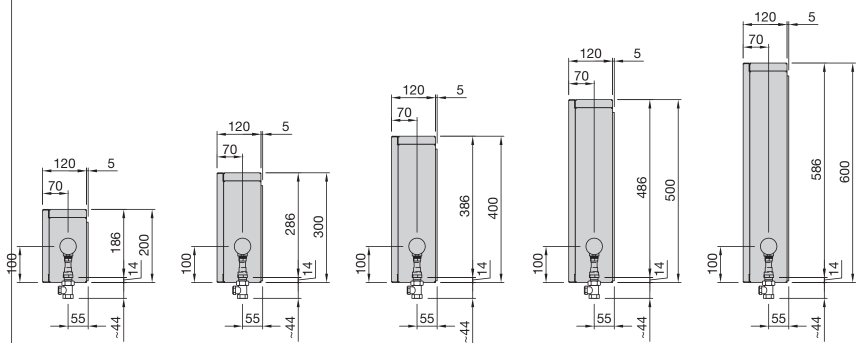



LTN-020-012 | LTN-030-012 | LTN-040-012 | LTN-050-012 | LTN-060-012

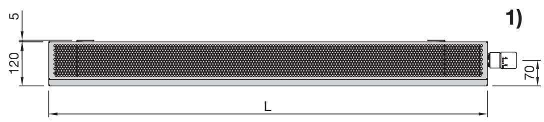
Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces angled return connections with G½" internal thread to be ordered with code V061.




LTN-020-012 | LTN-030-012 | LTN-040-012 | LTN-050-012 | LTN-060-012

Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces straight return connections G½" internal thread to be ordered with code V060.




LTN-...-012

1) **Thermostatic valve, head and return connections are not included in scope of delivery**

Optional:
One pipe system possible by using H-valve type with bypass.

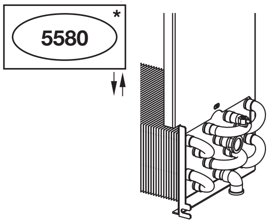
H = Height
L = Length
* = Air vent

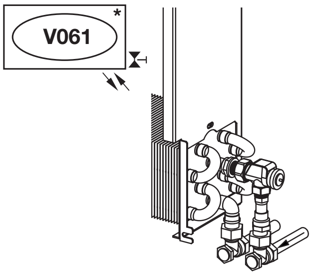
Dimensions in mm

# Zehnder Lateo

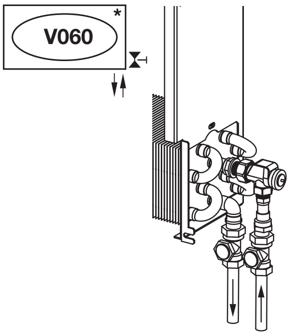
| Connection type | | Dimensional drawing: Front view, side view and top view |
|---|---|---|
| **Standard connection** | | **Models LTN-...-018** |

Lateral on right side to the bottom for wall or floor connection



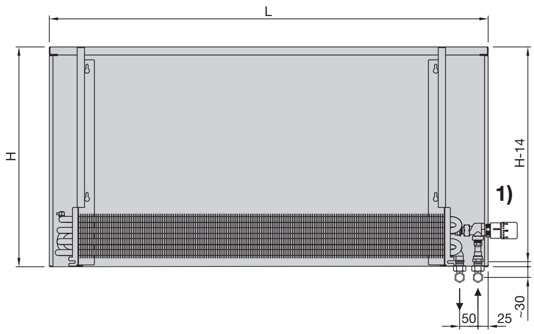

Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces angled return connections with G½" internal thread to be ordered with code V061.




Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces straight return connections G½" internal thread to be ordered with code V060.

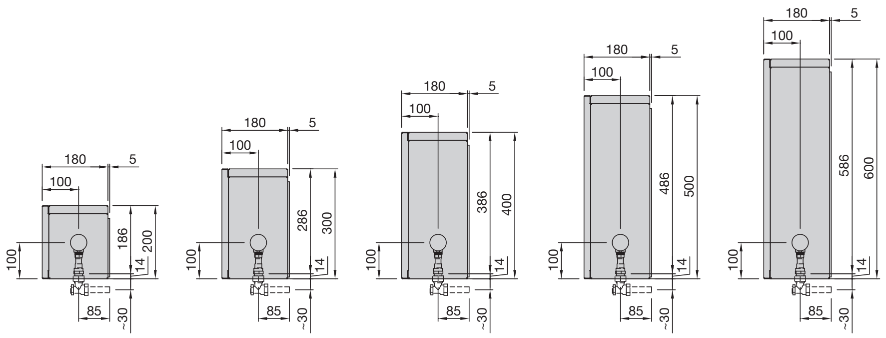
1) **Thermostatic valve, head and return connections are not included in scope of delivery**

**Width 180 mm**

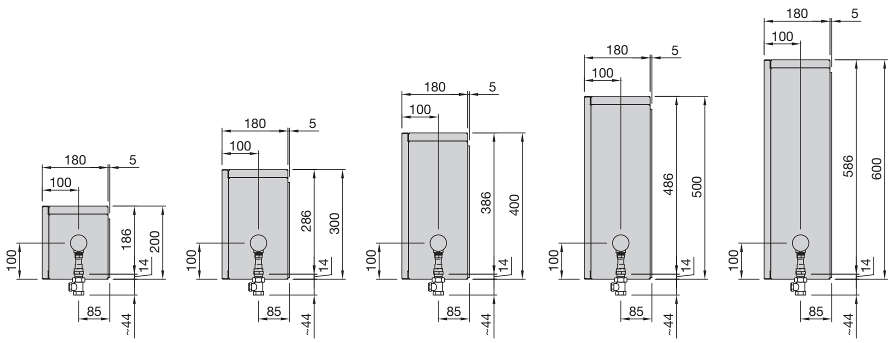



Height:

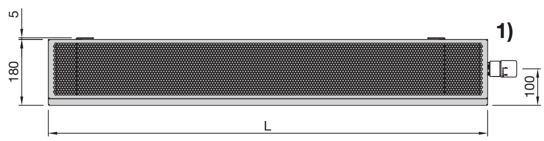
200 mm | 300 mm | 400 mm | 500 mm | 600 mm




LTN-020-018 | LTN-030-018 | LTN-040-018 | LTN-050-018 | LTN-060-018




LTN-020-018 | LTN-030-018 | LTN-040-018 | LTN-050-018 | LTN-060-018




LTN-...-018

Optional:
One pipe system possible by using H-valve type with bypass.

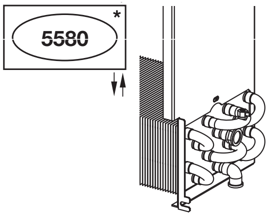
H = Height
L = Length
* = Air vent

Dimensions in mm

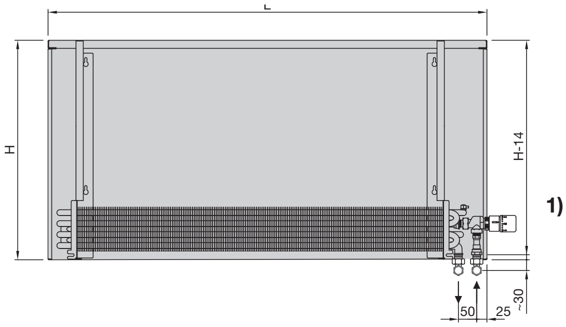
# Zehnder Lateo

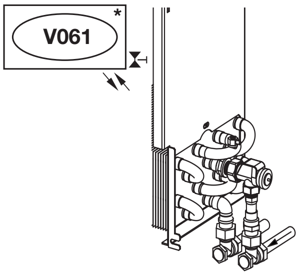
| Connection type | Dimensional drawing: Front view, side view and top view |
|---|---|
| **Standard connection** | **Models LTN-...-024** |

Lateral on right side to the bottom for wall or floor connection




**Width 240 mm**

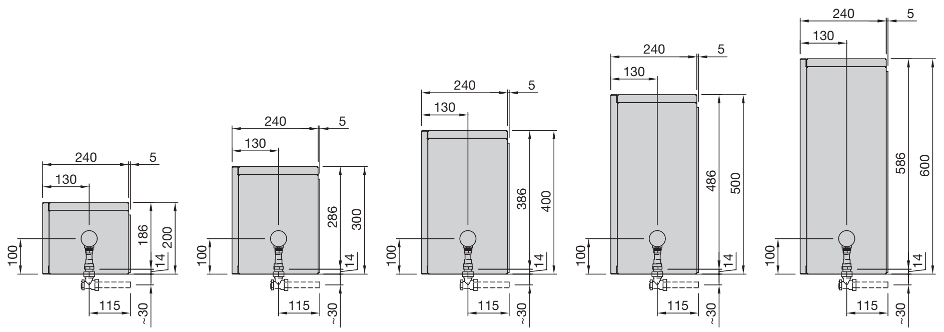


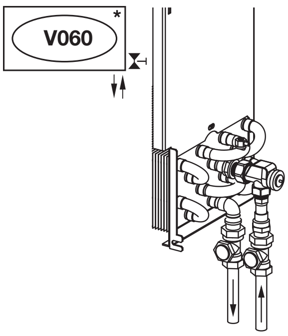

Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces angled return connections with G½" internal thread to be ordered with code V061.

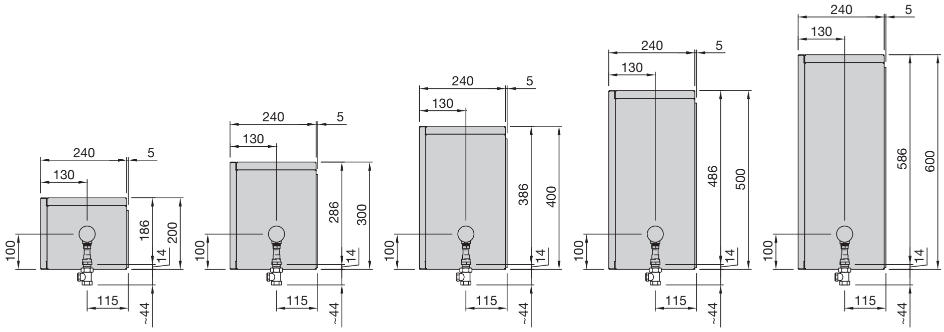
Height:

| 200 mm | 300 mm | 400 mm | 500 mm | 600 mm |
|---|---|---|---|---|




LTN-020-024 LTN-030-024 LTN-040-024 LTN-050-024 LTN-060-024

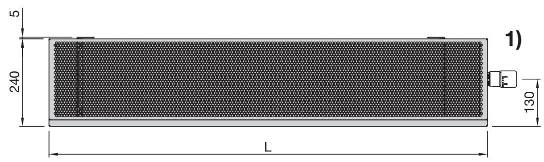



LTN-020-024 LTN-030-024 LTN-040-024 LTN-050-024 LTN-060-024

Valve set included in packaging:
- 1 piece axial thermostatic valve
- 2 pieces straight return connections G½" internal thread to be ordered with code V060.

[1] **Thermostatic valve, head and return connections are not included in scope of delivery**




LTN-...-024

Optional:
One pipe system possible by using H-valve type with bypass.

H = Height
L = Length
* = Air vent

Dimensions in mm

# Zehnder Lateo

zehnder

**Pressure loss graph**
Full table with all lengths on request

**Width 80 mm, heights 200, 300 mm**
**Models: LTN-020-008, LTN-030-008**

| Length [mm] | Water content [l] | Mass flow sq$_m$ (kg/h) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 350 | 400 |
| | | Pressure loss ΔP (kPa) | | | | | | | | | | |
| 400 | 0.2 | 0.003 | 0.011 | 0.025 | 0.044 | 0.070 | 0.160 | 0.287 | 0.451 | 0.652 | 0.890 | 1.164 |
| 600 | 0.3 | 0.004 | 0.015 | 0.033 | 0.059 | 0.092 | 0.205 | 0.362 | 0.563 | 0.807 | 1.094 | 1.423 |
| 800 | 0.5 | 0.005 | 0.019 | 0.042 | 0.073 | 0.113 | 0.249 | 0.437 | 0.674 | 0.962 | 1.298 | 1.683 |
| 1000 | 0.6 | 0.006 | 0.023 | 0.050 | 0.088 | 0.135 | 0.294 | 0.511 | 0.786 | 1.116 | 1.502 | 1.942 |
| 1200 | 0.8 | 0.007 | 0.027 | 0.059 | 0.102 | 0.156 | 0.338 | 0.586 | 0.897 | 1.271 | 1.706 | 2.201 |
| 1400 | 0.9 | 0.008 | 0.031 | 0.067 | 0.116 | 0.177 | 0.383 | 0.661 | 1.009 | 1.425 | 1.910 | 2.460 |
| 1600 | 1.1 | 0.010 | 0.035 | 0.076 | 0.131 | 0.199 | 0.427 | 0.735 | 1.120 | 1.580 | 2.114 | 2.719 |
| 1800 | 1.2 | 0.011 | 0.039 | 0.084 | 0.145 | 0.220 | 0.472 | 0.810 | 1.232 | 1.735 | 2.317 | 2.978 |
| 2000 | 1.4 | 0.012 | 0.044 | 0.093 | 0.159 | 0.242 | 0.516 | 0.884 | 1.343 | 1.889 | 2.521 | 3.238 |
| 2200 | 1.6 | 0.013 | 0.048 | 0.102 | 0.174 | 0.263 | 0.561 | 0.959 | 1.454 | 2.044 | 2.725 | 3.497 |
| 2400 | 1.7 | 0.014 | 0.052 | 0.110 | 0.188 | 0.285 | 0.605 | 1.034 | 1.566 | 2.199 | 2.929 | 3.756 |
| 2600 | 1.9 | 0.015 | 0.056 | 0.119 | 0.202 | 0.306 | 0.650 | 1.108 | 1.677 | 2.353 | 3.133 | 4.015 |
| 2800 | 2.0 | 0.017 | 0.060 | 0.127 | 0.217 | 0.328 | 0.694 | 1.183 | 1.789 | 2.508 | 3.337 | 4.274 |

**Width 80 mm, heights 400, 500, 600 mm**
**Models: LTN-040-008, LTN-050-008, LTN-060-008**

| Length [mm] | Water content [l] | Mass flow sq$_m$ (kg/h) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 350 | 400 |
| | | Pressure loss ΔP (kPa) | | | | | | | | | | |
| 400 | 0.3 | 0.007 | 0.026 | 0.057 | 0.099 | 0.151 | 0.327 | 0.564 | 0.859 | 1.210 | 1.616 | 2.075 |
| 600 | 0.6 | 0.010 | 0.037 | 0.079 | 0.134 | 0.202 | 0.427 | 0.724 | 1.091 | 1.525 | 2.022 | 2.582 |
| 800 | 0.9 | 0.014 | 0.048 | 0.100 | 0.169 | 0.253 | 0.526 | 0.885 | 1.324 | 1.839 | 2.429 | 3.089 |
| 1000 | 1.2 | 0.017 | 0.059 | 0.122 | 0.204 | 0.304 | 0.626 | 1.045 | 1.556 | 2.154 | 2.835 | 3.597 |
| 1200 | 1.6 | 0.021 | 0.070 | 0.144 | 0.239 | 0.354 | 0.725 | 1.206 | 1.789 | 2.469 | 3.241 | 4.104 |
| 1400 | 1.9 | 0.024 | 0.081 | 0.165 | 0.274 | 0.405 | 0.825 | 1.366 | 2.021 | 2.783 | 3.648 | 4.611 |
| 1600 | 2.2 | 0.028 | 0.092 | 0.187 | 0.309 | 0.456 | 0.924 | 1.527 | 2.254 | 3.098 | 4.054 | 5.118 |
| 1800 | 2.5 | 0.031 | 0.103 | 0.209 | 0.344 | 0.507 | 1.024 | 1.687 | 2.486 | 3.413 | 4.460 | 5.625 |
| 2000 | 2.8 | 0.035 | 0.114 | 0.230 | 0.379 | 0.557 | 1.124 | 1.848 | 2.719 | 3.727 | 4.867 | 6.132 |

**Width 120 mm, heights 200, 300, 400, 500, 600 mm**
**Models: LTN-020-012, LTN-030-012, LTN-040-012, LTN-050-012, LTN-060-012**

| Length [mm] | Water content [l] | Mass flow sq$_m$ (kg/h) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 350 | 400 |
| | | Pressure loss ΔP (kPa) | | | | | | | | | | |
| 400 | 0.2 | 0.004 | 0.018 | 0.040 | 0.071 | 0.110 | 0.243 | 0.426 | 0.658 | 0.937 | 1.262 | 1.633 |
| 600 | 0.5 | 0.007 | 0.026 | 0.055 | 0.096 | 0.147 | 0.316 | 0.545 | 0.831 | 1.172 | 1.568 | 2.016 |
| 800 | 0.7 | 0.009 | 0.033 | 0.071 | 0.121 | 0.183 | 0.390 | 0.664 | 1.005 | 1.408 | 1.874 | 2.399 |
| 1000 | 0.9 | 0.012 | 0.041 | 0.086 | 0.146 | 0.220 | 0.463 | 0.783 | 1.178 | 1.644 | 2.180 | 2.782 |
| 1200 | 1.2 | 0.014 | 0.049 | 0.102 | 0.172 | 0.257 | 0.536 | 0.902 | 1.352 | 1.880 | 2.486 | 3.165 |
| 1400 | 1.4 | 0.016 | 0.057 | 0.118 | 0.197 | 0.294 | 0.609 | 1.021 | 1.525 | 2.116 | 2.791 | 3.549 |
| 1600 | 1.6 | 0.019 | 0.065 | 0.133 | 0.222 | 0.331 | 0.682 | 1.140 | 1.698 | 2.352 | 3.097 | 3.932 |
| 1800 | 1.9 | 0.021 | 0.072 | 0.149 | 0.248 | 0.368 | 0.756 | 1.259 | 1.872 | 2.588 | 3.403 | 4.315 |
| 2000 | 2.1 | 0.024 | 0.080 | 0.164 | 0.273 | 0.405 | 0.829 | 1.378 | 2.045 | 2.824 | 3.709 | 4.698 |
| 2200 | 2.3 | 0.026 | 0.088 | 0.180 | 0.298 | 0.442 | 0.902 | 1.497 | 2.219 | 3.060 | 4.015 | 5.081 |
| 2400 | 2.6 | 0.028 | 0.096 | 0.195 | 0.323 | 0.478 | 0.975 | 1.616 | 2.392 | 3.296 | 4.321 | 5.464 |
| 2600 | 2.8 | 0.031 | 0.104 | 0.211 | 0.349 | 0.515 | 1.048 | 1.735 | 2.566 | 3.532 | 4.627 | 5.848 |
| 2800 | 3.0 | 0.033 | 0.111 | 0.226 | 0.374 | 0.552 | 1.122 | 1.854 | 2.739 | 3.767 | 4.933 | 6.231 |

**Minimum water flow**
Minimum water flow $q_m$ min in % of the nominal flow rate $q_{ms}$: 17%

# Zehnder Lateo

### Pressure loss graph

Full table with all lengths on request

**Width 180 mm, heights 200, 300, 400, 500, 600 mm**
**Models: LTN-020-018, LTN-030-018, LTN-040-018, LTN-050-018, LTN-060-018**

| Length [mm] | Water content [l] | Mass flow $sq_m$ (kg/h) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 350 | 400 |
| | | Pressure loss ΔP (kPa) | | | | | | | | | | |
| 400 | 0.4 | 0.010 | 0.037 | 0.077 | 0.131 | 0.197 | 0.414 | 0.7 | 1.053 | 1.469 | 1.947 | 2.484 |
| 600 | 0.8 | 0.015 | 0.050 | 0.104 | 0.174 | 0.259 | 0.537 | 0.898 | 1.341 | 1.859 | 2.452 | 3.115 |
| 800 | 1.2 | 0.019 | 0.063 | 0.130 | 0.216 | 0.321 | 0.659 | 1.096 | 1.628 | 2.250 | 2.956 | 3.746 |
| 1000 | 1.6 | 0.023 | 0.077 | 0.157 | 0.259 | 0.383 | 0.781 | 1.295 | 1.916 | 2.639 | 3.461 | 4.377 |
| 1200 | 2.0 | 0.027 | 0.090 | 0.183 | 0.302 | 0.446 | 0.904 | 1.493 | 2.204 | 3.030 | 3.966 | 5.008 |
| 1300 | 2.2 | 0.029 | 0.097 | 0.196 | 0.324 | 0.477 | 0.965 | 1.591 | 2.347 | 3.225 | 4.219 | 5.324 |
| 1400 | 2.4 | 0.031 | 0.104 | 0.210 | 0.345 | 0.508 | 1.026 | 1.691 | 2.491 | 3.420 | 4.471 | 5.639 |
| 1600 | 2.7 | 0.036 | 0.117 | 0.236 | 0.388 | 0.570 | 1.149 | 1.889 | 2.779 | 3.810 | 4.976 | 6.270 |
| 1800 | 3.1 | 0.040 | 0.131 | 0.263 | 0.430 | 0.632 | 1.271 | 2.087 | 3.067 | 4.200 | 5.481 | 6.901 |
| 2000 | 3.5 | 0.044 | 0.144 | 0.289 | 0.473 | 0.694 | 1.394 | 2.285 | 3.354 | 4.590 | 5.985 | 7.533 |
| 2200 | 3.9 | 0.048 | 0.158 | 0.315 | 0.516 | 0.757 | 1.516 | 2.483 | 3.642 | 4.980 | 6.490 | 8.164 |
| 2400 | 4.3 | 0.052 | 0.171 | 0.342 | 0.559 | 0.818 | 1.638 | 2.681 | 3.929 | 5.371 | 6.995 | 8.795 |
| 2600 | 4.7 | 0.056 | 0.184 | 0.368 | 0.602 | 0.881 | 1.761 | 2.879 | 4.217 | 5.760 | 7.500 | 9.426 |
| 2800 | 5.1 | 0.061 | 0.198 | 0.395 | 0.645 | 0.943 | 1.883 | 3.077 | 4.505 | 6.151 | 8.004 | 10.057 |

**Width 240 mm, heights 200, 300, 400, 500, 600 mm**
**Models: LTN-020-024, LTN-030-024, LTN-040-024, LTN-050-024, LTN-060-024**

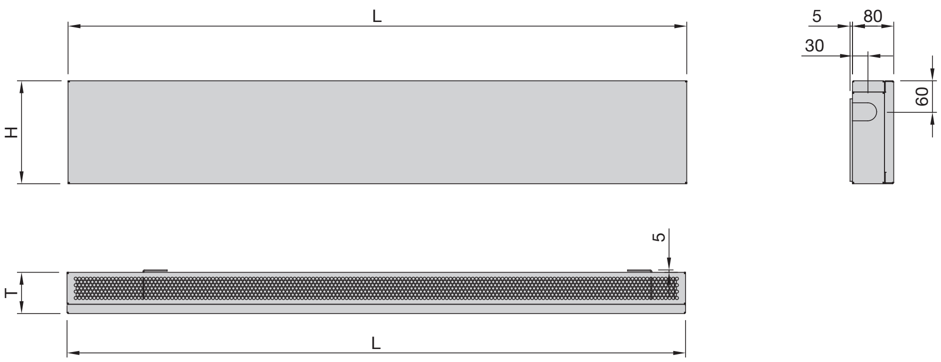
| Length [mm] | Water content [l] | Mass flow $sq_m$ (kg/h) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | 40 | 60 | 80 | 100 | 150 | 200 | 250 | 300 | 350 | 400 |
| | | Pressure loss ΔP (kPa) | | | | | | | | | | |
| 400 | 0.5 | 0.015 | 0.054 | 0.112 | 0.188 | 0.281 | 0.583 | 0.976 | 1.454 | 2.014 | 2.651 | 3.364 |
| 600 | 1.1 | 0.022 | 0.074 | 0.151 | 0.250 | 0.371 | 0.758 | 1.256 | 1.859 | 2.561 | 3.357 | 4.243 |
| 800 | 1.6 | 0.028 | 0.093 | 0.188 | 0.312 | 0.459 | 0.932 | 1.536 | 2.264 | 3.108 | 4.062 | 5.122 |
| 1000 | 2.2 | 0.034 | 0.113 | 0.228 | 0.373 | 0.549 | 1.105 | 1.817 | 2.670 | 3.655 | 4.767 | 6.001 |
| 1200 | 2.7 | 0.041 | 0.132 | 0.265 | 0.436 | 0.639 | 1.281 | 2.097 | 3.075 | 4.202 | 5.472 | 6.880 |
| 1400 | 3.3 | 0.047 | 0.152 | 0.305 | 0.497 | 0.728 | 1.454 | 2.377 | 3.479 | 4.750 | 6.178 | 7.759 |
| 1600 | 3.8 | 0.053 | 0.171 | 0.342 | 0.559 | 0.817 | 1.630 | 2.658 | 3.885 | 5.296 | 6.884 | 8.638 |
| 1800 | 4.3 | 0.059 | 0.192 | 0.382 | 0.620 | 0.906 | 1.803 | 2.938 | 4.290 | 5.844 | 7.590 | 9.517 |
| 2000 | 4.9 | 0.066 | 0.210 | 0.419 | 0.683 | 0.996 | 1.979 | 3.219 | 4.694 | 6.390 | 8.295 | 10.396 |
| 2200 | 5.4 | 0.072 | 0.231 | 0.457 | 0.744 | 1.086 | 2.152 | 3.499 | 5.100 | 6.938 | 9.000 | 11.275 |
| 2400 | 6.0 | 0.078 | 0.251 | 0.496 | 0.806 | 1.174 | 2.326 | 3.779 | 5.505 | 7.485 | 9.705 | 12.154 |
| 2600 | 6.5 | 0.084 | 0.270 | 0.534 | 0.868 | 1.264 | 2.501 | 4.059 | 5.910 | 8.032 | 10.411 | 13.033 |
| 2800 | 7.0 | 0.090 | 0.290 | 0.573 | 0.930 | 1.353 | 2.675 | 4.339 | 6.315 | 8.579 | 11.116 | 13.912 |

### Minimum water flow

Minimum water flow $q_m$ min in % of the nominal flow rate $q_{ms}$: 17%

# Zehnder Lateo

## Model LTN-020-008




H = Overall height
L = Length
T = Depth
V = Water content
M = Weight
$q_{ms}$ = Nominal water flow
n = Exponent
$\Phi_S$ = Nominal heat output to EN 442 (75/65/20 °C)
Φ = Thermal output at system temperatures

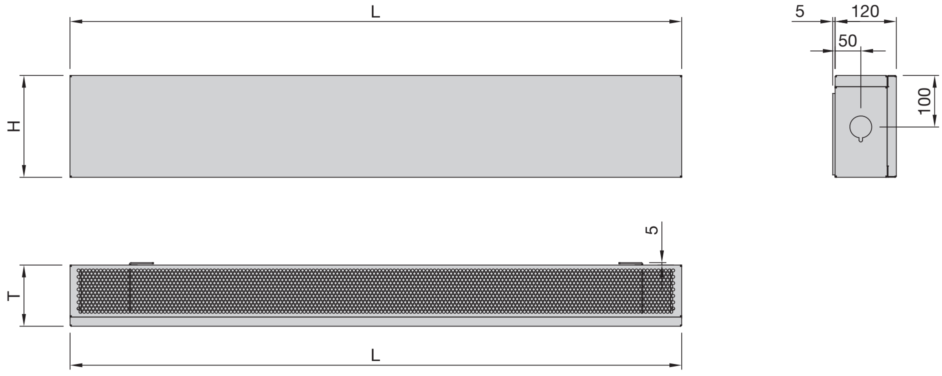
Dimensions in mm

Technical specifications per wall convector

| Model | L mm | H mm | T mm | V dm³ | M kg | $q_{ms}$ kg/h | Exp. n | $\Phi_S$ = ΔT 50K EN442 W | Φ= ΔT 30K 55/45/20 °C W |
|---|---|---|---|---|---|---|---|---|---|
| LTN-020-008 | 400 | 200 | 80 | 0.2 | 3.0 | 12.4 | 1.449 | 145 | 69 |
| LTN-020-008 | 500 | 200 | 80 | 0.2 | 3.7 | 15.5 | 1.449 | 181 | 86 |
| LTN-020-008 | 600 | 200 | 80 | 0.3 | 4.5 | 18.7 | 1.449 | 217 | 104 |
| LTN-020-008 | 700 | 200 | 80 | 0.4 | 5.2 | 21.8 | 1.449 | 253 | 121 |
| LTN-020-008 | 800 | 200 | 80 | 0.5 | 5.9 | 24.9 | 1.449 | 289 | 138 |
| LTN-020-008 | 900 | 200 | 80 | 0.5 | 6.7 | 28.0 | 1.449 | 326 | 155 |
| LTN-020-008 | 1000 | 200 | 80 | 0.6 | 7.4 | 31.1 | 1.449 | 362 | 173 |
| LTN-020-008 | 1100 | 200 | 80 | 0.7 | 8.2 | 34.2 | 1.449 | 398 | 190 |
| LTN-020-008 | 1200 | 200 | 80 | 0.8 | 8.9 | 37.3 | 1.449 | 434 | 207 |
| LTN-020-008 | 1400 | 200 | 80 | 0.9 | 10.4 | 43.5 | 1.449 | 506 | 242 |
| LTN-020-008 | 1600 | 200 | 80 | 1.1 | 11.9 | 49.8 | 1.449 | 579 | 276 |
| LTN-020-008 | 1800 | 200 | 80 | 1.2 | 13.3 | 56.0 | 1.449 | 651 | 311 |
| LTN-020-008 | 2000 | 200 | 80 | 1.4 | 14.8 | 62.2 | 1.449 | 723 | 345 |
| LTN-020-008 | 2200 | 200 | 80 | 1.6 | 16.3 | 68.4 | 1.449 | 796 | 380 |
| LTN-020-008 | 2400 | 200 | 80 | 1.7 | 17.8 | 74.6 | 1.449 | 868 | 414 |
| LTN-020-008 | 2600 | 200 | 80 | 1.9 | 19.3 | 80.9 | 1.449 | 940 | 449 |
| LTN-020-008 | 2800 | 200 | 80 | 2.0 | 20.8 | 87.1 | 1.449 | 1013 | 483 |

# Zehnder Lateo

## Model LTN-020-012




H = Overall height
L = Length
T = Depth
V = Water content
M = Weight
$q_{ms}$ = Nominal water flow
n = Exponent
$\Phi_S$ = Nominal heat output to EN 442 (75/65/20 °C)
$\Phi$ = Thermal output at system temperatures

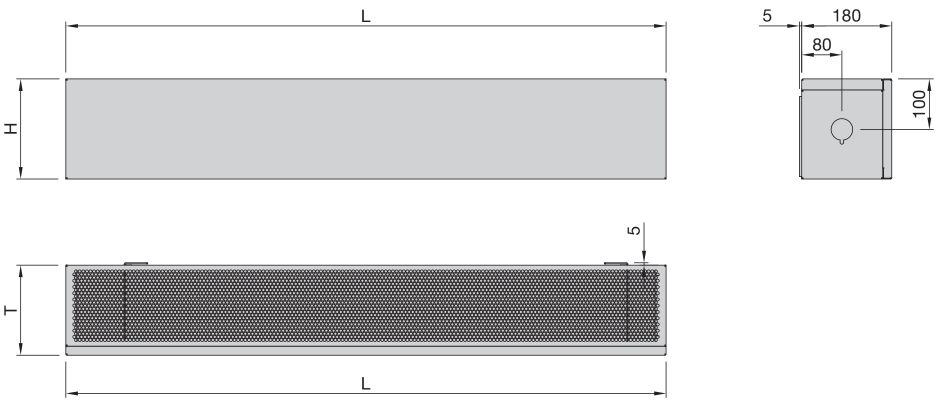
Dimensions in mm

Technical specifications per wall convector

| Model | L<br>mm | H<br>mm | T<br>mm | V<br>$dm^3$ | M<br>kg | $q_{ms}$<br>kg/h | Exp.<br>n | $\Phi_S$ = ΔT 50K EN442<br>W | Φ= ΔT 30K 55/45/20 °C<br>W |
|---|---|---|---|---|---|---|---|---|---|
| LTN-020-012 | 400 | 200 | 120 | 0.2 | 3.6 | 19.6 | 1.451 | 229 | 109 |
| LTN-020-012 | 500 | 200 | 120 | 0.3 | 4.5 | 24.6 | 1.451 | 286 | 136 |
| LTN-020-012 | 600 | 200 | 120 | 0.5 | 5.4 | 29.5 | 1.451 | 343 | 163 |
| LTN-020-012 | 700 | 200 | 120 | 0.6 | 6.3 | 34.4 | 1.451 | 400 | 191 |
| LTN-020-012 | 800 | 200 | 120 | 0.7 | 7.2 | 39.3 | 1.451 | 457 | 218 |
| LTN-020-012 | 900 | 200 | 120 | 0.8 | 8.1 | 44.2 | 1.451 | 514 | 245 |
| LTN-020-012 | 1000 | 200 | 120 | 0.9 | 9.1 | 49.1 | 1.451 | 571 | 272 |
| LTN-020-012 | 1100 | 200 | 120 | 1.0 | 10.0 | 54.0 | 1.451 | 628 | 299 |
| LTN-020-012 | 1200 | 200 | 120 | 1.2 | 10.9 | 58.9 | 1.451 | 686 | 327 |
| LTN-020-012 | 1400 | 200 | 120 | 1.4 | 12.7 | 68.8 | 1.451 | 800 | 381 |
| LTN-020-012 | 1600 | 200 | 120 | 1.6 | 14.5 | 78.6 | 1.451 | 914 | 436 |
| LTN-020-012 | 1800 | 200 | 120 | 1.9 | 16.3 | 88.4 | 1.451 | 1028 | 490 |
| LTN-020-012 | 2000 | 200 | 120 | 2.1 | 18.1 | 98.2 | 1.451 | 1143 | 544 |
| LTN-020-012 | 2200 | 200 | 120 | 2.3 | 19.9 | 108.1 | 1.451 | 1257 | 599 |
| LTN-020-012 | 2400 | 200 | 120 | 2.6 | 21.7 | 117.9 | 1.451 | 1371 | 653 |
| LTN-020-012 | 2600 | 200 | 120 | 2.8 | 23.5 | 127.7 | 1.451 | 1485 | 708 |
| LTN-020-012 | 2800 | 200 | 120 | 3.0 | 25.3 | 137.5 | 1.451 | 1600 | 762 |

# Zehnder Lateo

## Model LTN-020-018




H = Overall height
L = Length
T = Depth
V = Water content
M = Weight
$q_{ms}$ = Nominal water flow
n = Exponent
$\Phi_S$ = Nominal heat output to EN 442 (75/65/20 °C)
$\Phi$ = Thermal output at system temperatures

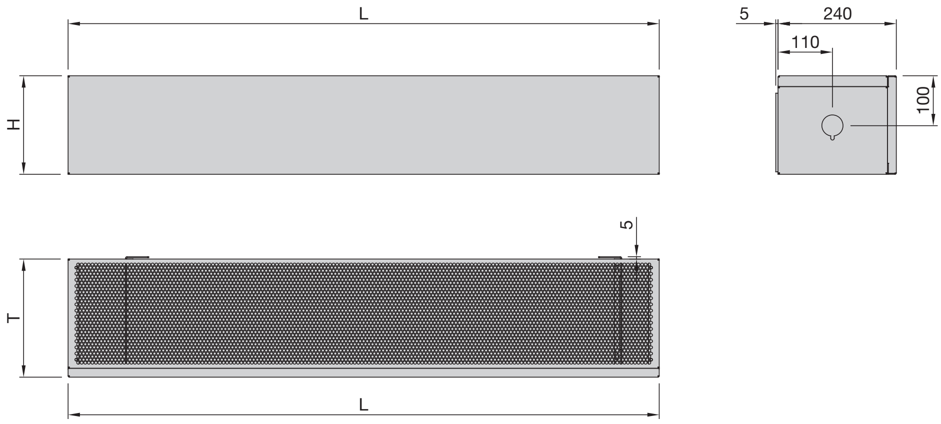
Dimensions in mm

Technical specifications per wall convector

| Model | L<br>mm | H<br>mm | T<br>mm | V<br>$dm^3$ | M<br>kg | $q_{ms}$<br>kg/h | Exp.<br>n | $\Phi_S$ = ΔT 50K<br>EN442<br>W | Φ= ΔT 30K<br>55/45/20 °C<br>W |
|---|---|---|---|---|---|---|---|---|---|
| LTN-020-018 | 400 | 200 | 180 | 0.4 | 4.6 | 33.2 | 1.460 | 386 | 183 |
| LTN-020-018 | 500 | 200 | 180 | 0.6 | 5.8 | 41.5 | 1.460 | 483 | 229 |
| LTN-020-018 | 600 | 200 | 180 | 0.8 | 6.9 | 49.8 | 1.460 | 580 | 275 |
| LTN-020-018 | 700 | 200 | 180 | 1.0 | 8.1 | 58.1 | 1.460 | 676 | 321 |
| LTN-020-018 | 800 | 200 | 180 | 1.2 | 9.2 | 66.4 | 1.460 | 773 | 367 |
| LTN-020-018 | 900 | 200 | 180 | 1.4 | 10.4 | 74.7 | 1.460 | 869 | 412 |
| LTN-020-018 | 1000 | 200 | 180 | 1.6 | 11.6 | 83.0 | 1.460 | 966 | 458 |
| LTN-020-018 | 1100 | 200 | 180 | 1.8 | 12.7 | 91.3 | 1.460 | 1062 | 504 |
| LTN-020-018 | 1200 | 200 | 180 | 2.0 | 13.9 | 99.7 | 1.460 | 1159 | 550 |
| LTN-020-018 | 1400 | 200 | 180 | 2.4 | 16.2 | 116.3 | 1.460 | 1352 | 641 |
| LTN-020-018 | 1600 | 200 | 180 | 2.7 | 18.5 | 132.9 | 1.460 | 1545 | 733 |
| LTN-020-018 | 1800 | 200 | 180 | 3.1 | 20.8 | 149.5 | 1.460 | 1739 | 825 |
| LTN-020-018 | 2000 | 200 | 180 | 3.5 | 23.1 | 166.1 | 1.460 | 1932 | 916 |
| LTN-020-018 | 2200 | 200 | 180 | 3.9 | 25.4 | 182.7 | 1.460 | 2125 | 1008 |
| LTN-020-018 | 2400 | 200 | 180 | 4.3 | 27.7 | 199.3 | 1.460 | 2318 | 1100 |
| LTN-020-018 | 2600 | 200 | 180 | 4.7 | 30.0 | 215.9 | 1.460 | 2511 | 1191 |
| LTN-020-018 | 2800 | 200 | 180 | 5.1 | 32.3 | 232.5 | 1.460 | 2704 | 1283 |

# Zehnder Lateo

## Model LTN-020-024




| | | |
|---|---|---|
| H | = | Overall height |
| L | = | Length |
| T | = | Depth |
| V | = | Water content |
| M | = | Weight |
| $q_{ms}$ | = | Nominal water flow |
| n | = | Exponent |
| $\Phi_S$ | = | Nominal heat output to EN 442 (75/65/20 °C) |
| $\Phi$ | = | Thermal output at system temperatures |

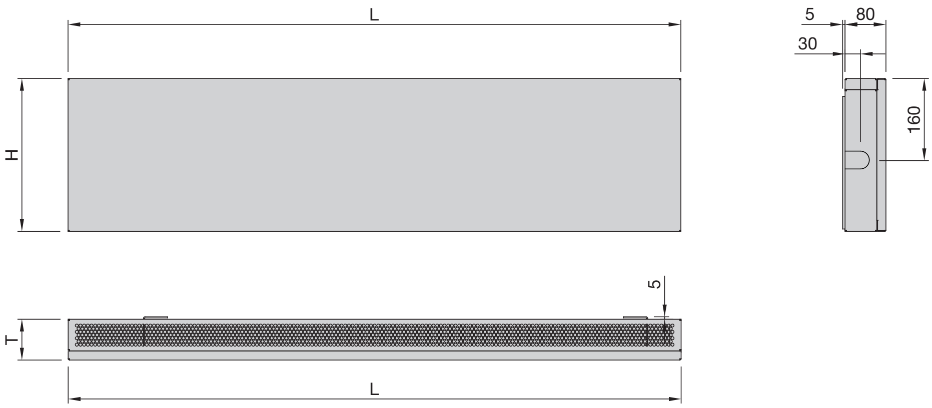
Dimensions in mm

Technical specifications per wall convector

| Model | L<br>mm | H<br>mm | T<br>mm | V<br>$dm^3$ | M<br>kg | $q_{ms}$<br>kg/h | Exp.<br>n | $\Phi_S$ = ΔT 50K<br>EN442<br>W | $\Phi$= ΔT 30K<br>55/45/20 °C<br>W |
|---|---|---|---|---|---|---|---|---|---|
| LTN-020-024 | 400 | 200 | 240 | 0.5 | 5.7 | 47.7 | 1.474 | 554 | 261 |
| LTN-020-024 | 500 | 200 | 240 | 0.8 | 7.2 | 59.6 | 1.474 | 693 | 326 |
| LTN-020-024 | 600 | 200 | 240 | 1.1 | 8.6 | 71.5 | 1.474 | 832 | 392 |
| LTN-020-024 | 700 | 200 | 240 | 1.4 | 10.0 | 83.4 | 1.474 | 970 | 457 |
| LTN-020-024 | 800 | 200 | 240 | 1.6 | 11.5 | 95.3 | 1.474 | 1109 | 522 |
| LTN-020-024 | 900 | 200 | 240 | 1.9 | 12.9 | 107.2 | 1.474 | 1247 | 587 |
| LTN-020-024 | 1000 | 200 | 240 | 2.2 | 14.3 | 119.2 | 1.474 | 1386 | 653 |
| LTN-020-024 | 1100 | 200 | 240 | 2.4 | 15.8 | 131.1 | 1.474 | 1524 | 718 |
| LTN-020-024 | 1200 | 200 | 240 | 2.7 | 17.2 | 143.0 | 1.474 | 1663 | 783 |
| LTN-020-024 | 1400 | 200 | 240 | 3.3 | 20.1 | 166.8 | 1.474 | 1940 | 914 |
| LTN-020-024 | 1600 | 200 | 240 | 3.8 | 22.9 | 190.6 | 1.474 | 2217 | 1044 |
| LTN-020-024 | 1800 | 200 | 240 | 4.3 | 25.8 | 214.5 | 1.474 | 2495 | 1175 |
| LTN-020-024 | 2000 | 200 | 240 | 4.9 | 28.6 | 238.3 | 1.474 | 2772 | 1305 |
| LTN-020-024 | 2200 | 200 | 240 | 5.4 | 31.5 | 262.1 | 1.474 | 3049 | 1436 |
| LTN-020-024 | 2400 | 200 | 240 | 6.0 | 34.4 | 286.0 | 1.474 | 3326 | 1566 |
| LTN-020-024 | 2600 | 200 | 240 | 6.5 | 37.2 | 309.8 | 1.474 | 3603 | 1697 |
| LTN-020-024 | 2800 | 200 | 240 | 7.0 | 40.1 | 333.6 | 1.474 | 3880 | 1828 |

# Zehnder Lateo

## Model LTN-030-008




H = Overall height
L = Length
T = Depth
V = Water content
M = Weight
$q_{ms}$ = Nominal water flow
n = Exponent
$\Phi_S$ = Nominal heat output to EN 442 (75/65/20 °C)
$\Phi$ = Thermal output at system temperatures

Dimensions in mm

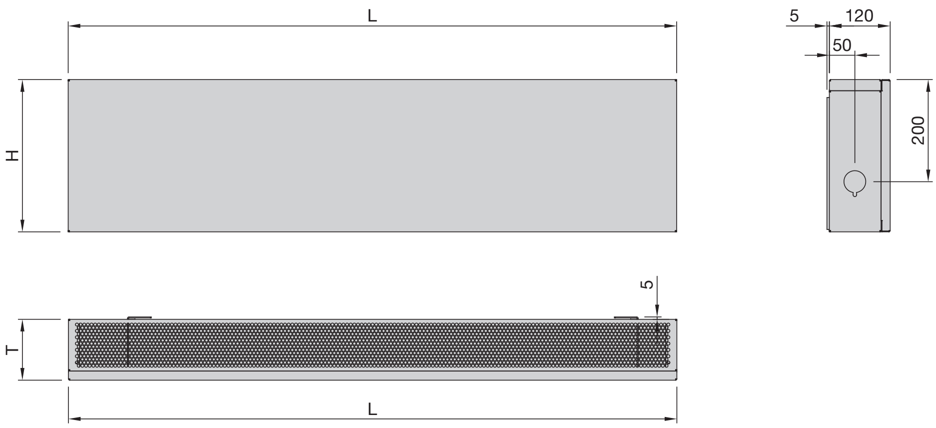
Technical specifications per wall convector

| Model | L<br>mm | H<br>mm | T<br>mm | V<br>$dm^3$ | M<br>kg | $q_{ms}$<br>kg/h | Exp.<br>n | $\Phi_S$ = ΔT 50K<br>EN442<br>W | Φ= ΔT 30K<br>55/45/20 °C<br>W |
|---|---|---|---|---|---|---|---|---|---|
| LTN-030-008 | 400 | 300 | 80 | 0.2 | 3.8 | 15.0 | 1.428 | 175 | 84 |
| LTN-030-008 | 500 | 300 | 80 | 0.2 | 4.7 | 18.8 | 1.428 | 219 | 105 |
| LTN-030-008 | 600 | 300 | 80 | 0.3 | 5.7 | 22.6 | 1.428 | 262 | 127 |
| LTN-030-008 | 700 | 300 | 80 | 0.4 | 6.6 | 26.3 | 1.428 | 306 | 148 |
| LTN-030-008 | 800 | 300 | 80 | 0.5 | 7.6 | 30.1 | 1.428 | 350 | 169 |
| LTN-030-008 | 900 | 300 | 80 | 0.5 | 8.5 | 33.8 | 1.428 | 394 | 190 |
| LTN-030-008 | 1000 | 300 | 80 | 0.6 | 9.5 | 37.6 | 1.428 | 437 | 211 |
| LTN-030-008 | 1100 | 300 | 80 | 0.7 | 10.4 | 41.4 | 1.428 | 481 | 232 |
| LTN-030-008 | 1200 | 300 | 80 | 0.8 | 11.4 | 45.1 | 1.428 | 525 | 253 |
| LTN-030-008 | 1400 | 300 | 80 | 0.9 | 13.3 | 52.7 | 1.428 | 612 | 295 |
| LTN-030-008 | 1600 | 300 | 80 | 1.1 | 15.1 | 60.2 | 1.428 | 700 | 337 |
| LTN-030-008 | 1800 | 300 | 80 | 1.2 | 17.0 | 67.7 | 1.428 | 787 | 380 |
| LTN-030-008 | 2000 | 300 | 80 | 1.4 | 18.9 | 75.2 | 1.428 | 875 | 422 |
| LTN-030-008 | 2200 | 300 | 80 | 1.6 | 20.8 | 80.7 | 1.428 | 962 | 464 |
| LTN-030-008 | 2400 | 300 | 80 | 1.7 | 22.7 | 90.3 | 1.428 | 1050 | 506 |
| LTN-030-008 | 2600 | 300 | 80 | 1.9 | 24.6 | 97.8 | 1.428 | 1137 | 548 |
| LTN-030-008 | 2800 | 300 | 80 | 2.0 | 26.5 | 105.3 | 1.428 | 1225 | 591 |

# Zehnder Lateo

zehnder

## Model LTN-030-012




H = Overall height
L = Length
T = Depth
V = Water content
M = Weight
$q_{ms}$ = Nominal water flow
n = Exponent
$\Phi_S$ = Nominal heat output to EN 442 (75/65/20 °C)
$\Phi$ = Thermal output at system temperatures

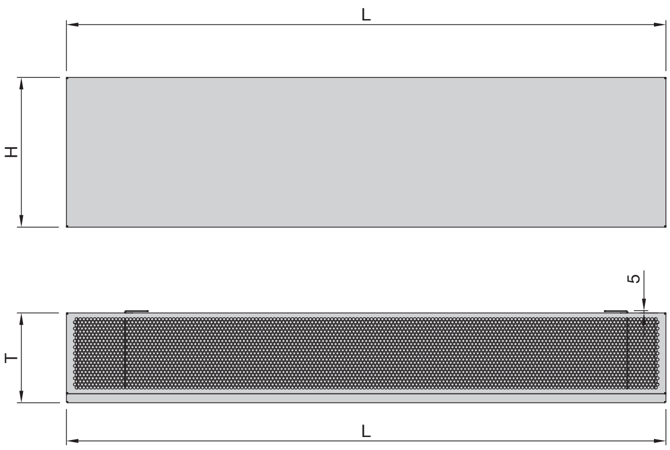
Dimensions in mm

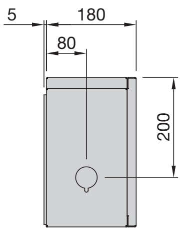
Technical specifications per wall convector

| Model | L<br>mm | H<br>mm | T<br>mm | V<br>$dm^3$ | M<br>kg | $q_{ms}$<br>kg/h | Exp.<br>n | $\Phi_S$ = ΔT 50K<br>EN442<br>W | Φ= ΔT 30K<br>55/45/20 °C<br>W |
|---|---|---|---|---|---|---|---|---|---|
| LTN-030-012 | 400 | 300 | 120 | 0.2 | 4.5 | 23.3 | 1.410 | 272 | 132 |
| LTN-030-012 | 500 | 300 | 120 | 0.3 | 5.6 | 29.2 | 1.410 | 339 | 165 |
| LTN-030-012 | 600 | 300 | 120 | 0.5 | 6.7 | 35.0 | 1.410 | 407 | 198 |
| LTN-030-012 | 700 | 300 | 120 | 0.6 | 7.8 | 40.9 | 1.410 | 475 | 231 |
| LTN-030-012 | 800 | 300 | 120 | 0.7 | 8.9 | 46.7 | 1.410 | 543 | 264 |
| LTN-030-012 | 900 | 300 | 120 | 0.8 | 10.1 | 52.5 | 1.410 | 611 | 297 |
| LTN-030-012 | 1000 | 300 | 120 | 0.9 | 11.2 | 58.4 | 1.410 | 679 | 330 |
| LTN-030-012 | 1100 | 300 | 120 | 1.0 | 12.3 | 64.2 | 1.410 | 747 | 363 |
| LTN-030-012 | 1200 | 300 | 120 | 1.2 | 13.4 | 70.0 | 1.410 | 815 | 396 |
| LTN-030-012 | 1400 | 300 | 120 | 1.4 | 15.7 | 81.7 | 1.410 | 950 | 462 |
| LTN-030-012 | 1600 | 300 | 120 | 1.6 | 17.9 | 93.4 | 1.410 | 1086 | 528 |
| LTN-030-012 | 1800 | 300 | 120 | 1.9 | 20.1 | 105.0 | 1.410 | 1202 | 595 |
| LTN-030-012 | 2000 | 300 | 120 | 2.1 | 22.4 | 116.7 | 1.410 | 1358 | 661 |
| LTN-030-012 | 2200 | 300 | 120 | 2.3 | 24.6 | 128.4 | 1.410 | 1493 | 727 |
| LTN-030-012 | 2400 | 300 | 120 | 2.6 | 26.8 | 140.1 | 1.410 | 1629 | 793 |
| LTN-030-012 | 2600 | 300 | 120 | 2.8 | 29.1 | 151.7 | 1.410 | 1765 | 859 |
| LTN-030-012 | 2800 | 300 | 120 | 3.0 | 31.3 | 163.4 | 1.410 | 1901 | 925 |

# Zehnder Lateo

## Model LTN-030-018




H = Overall height
L = Length
T = Depth
V = Water content
M = Weight
$q_{ms}$ = Nominal water flow
n = Exponent
$\Phi_S$ = Nominal heat output to EN 442 (75/65/20 °C)
Φ = Thermal output at system temperatures

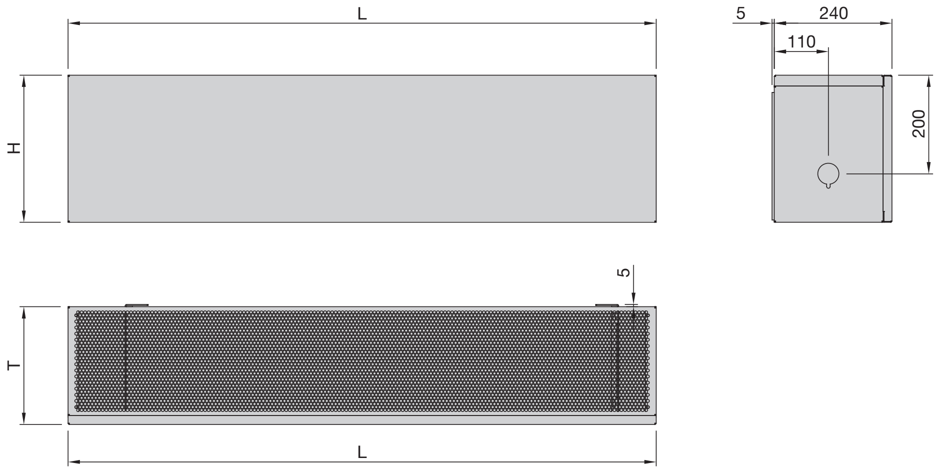
Dimensions in mm

Technical specifications per wall convector

| Model | L<br>mm | H<br>mm | T<br>mm | V<br>dm³ | M<br>kg | $q_{ms}$<br>kg/h | Exp.<br>n | $\Phi_S$ = ΔT 50K EN442<br>W | Φ= ΔT 30K 55/45/20 °C<br>W |
|---|---|---|---|---|---|---|---|---|---|
| LTN-030-018 | 400 | 300 | 180 | 0.4 | 5.6 | 39.6 | 1.410 | 461 | 224 |
| LTN-030-018 | 500 | 300 | 180 | 0.6 | 7.0 | 49.5 | 1.410 | 576 | 280 |
| LTN-030-018 | 600 | 300 | 180 | 0.8 | 8.4 | 59.4 | 1.410 | 691 | 336 |
| LTN-030-018 | 700 | 300 | 180 | 1.0 | 9.8 | 69.3 | 1.410 | 806 | 392 |
| LTN-030-018 | 800 | 300 | 180 | 1.2 | 11.2 | 79.2 | 1.410 | 921 | 448 |
| LTN-030-018 | 900 | 300 | 180 | 1.4 | 12.6 | 89.1 | 1.410 | 1037 | 504 |
| LTN-030-018 | 1000 | 300 | 180 | 1.6 | 14.0 | 99.0 | 1.410 | 1152 | 560 |
| LTN-030-018 | 1100 | 300 | 180 | 1.8 | 15.4 | 108.9 | 1.410 | 1267 | 616 |
| LTN-030-018 | 1200 | 300 | 180 | 2.0 | 16.8 | 118.8 | 1.410 | 1382 | 673 |
| LTN-030-018 | 1400 | 300 | 180 | 2.4 | 19.6 | 138.6 | 1.410 | 1612 | 785 |
| LTN-030-018 | 1600 | 300 | 180 | 2.7 | 22.4 | 158.4 | 1.410 | 1843 | 897 |
| LTN-030-018 | 1800 | 300 | 180 | 3.1 | 25.2 | 178.2 | 1.410 | 2073 | 1009 |
| LTN-030-018 | 2000 | 300 | 180 | 3.5 | 28.0 | 198.0 | 1.410 | 2303 | 1121 |
| LTN-030-018 | 2200 | 300 | 180 | 3.9 | 30.8 | 217.8 | 1.410 | 2534 | 1233 |
| LTN-030-018 | 2400 | 300 | 180 | 4.3 | 33.6 | 237.6 | 1.410 | 2764 | 1345 |
| LTN-030-018 | 2600 | 300 | 180 | 4.7 | 36.4 | 257.5 | 1.410 | 2994 | 1457 |
| LTN-030-018 | 2800 | 300 | 180 | 5.1 | 39.2 | 277.3 | 1.410 | 3225 | 1569 |

# Zehnder Lateo

## Model LTN-030-024




H = Overall height
L = Length
T = Depth
V = Water content
M = Weight
$q_{ms}$ = Nominal water flow
n = Exponent
$\Phi_S$ = Nominal heat output to EN 442 (75/65/20 °C)
Φ = Thermal output at system temperatures

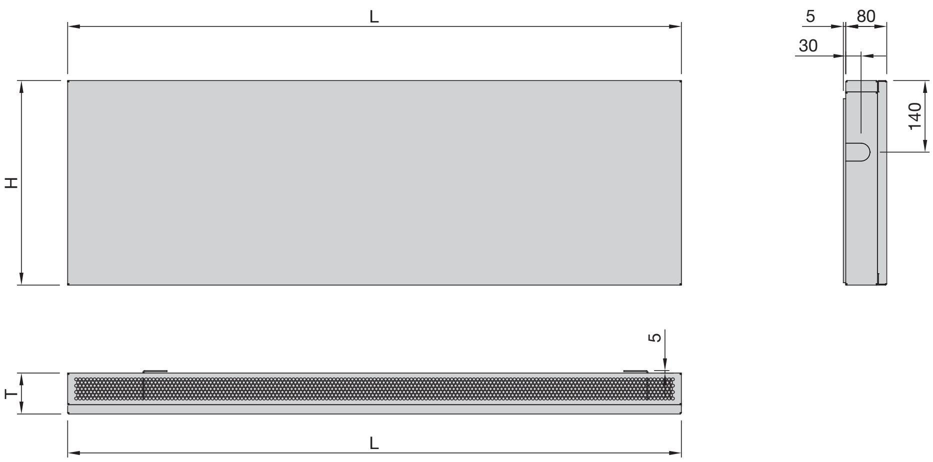
Dimensions in mm

Technical specifications per wall convector

| Model | L<br>mm | H<br>mm | T<br>mm | V<br>$dm^3$ | M<br>kg | $q_{ms}$<br>kg/h | Exp.<br>n | $\Phi_S$ = ΔT 50K<br>EN442<br>W | Φ= ΔT 30K<br>55/45/20 °C<br>W |
|---|---|---|---|---|---|---|---|---|---|
| LTN-030-024 | 400 | 300 | 240 | 0.5 | 6.8 | 55.1 | 1.430 | 641 | 309 |
| LTN-030-024 | 500 | 300 | 240 | 0.8 | 8.5 | 68.9 | 1.430 | 801 | 386 |
| LTN-030-024 | 600 | 300 | 240 | 1.1 | 10.2 | 82.6 | 1.430 | 961 | 463 |
| LTN-030-024 | 700 | 300 | 240 | 1.4 | 11.9 | 96.4 | 1.430 | 1121 | 540 |
| LTN-030-024 | 800 | 300 | 240 | 1.6 | 13.6 | 110.2 | 1.430 | 1281 | 617 |
| LTN-030-024 | 900 | 300 | 240 | 1.9 | 15.2 | 123.9 | 1.430 | 1442 | 694 |
| LTN-030-024 | 1000 | 300 | 240 | 2.2 | 16.9 | 137.7 | 1.430 | 1602 | 771 |
| LTN-030-024 | 1100 | 300 | 240 | 2.4 | 18.6 | 151.5 | 1.430 | 1762 | 849 |
| LTN-030-024 | 1200 | 300 | 240 | 2.7 | 20.3 | 165.3 | 1.430 | 1922 | 926 |
| LTN-030-024 | 1400 | 300 | 240 | 3.3 | 23.7 | 192.8 | 1.430 | 2240 | 1080 |
| LTN-030-024 | 1600 | 300 | 240 | 3.8 | 27.1 | 220.3 | 1.430 | 2563 | 1234 |
| LTN-030-024 | 1800 | 300 | 240 | 4.3 | 30.5 | 247.9 | 1.430 | 2883 | 1389 |
| LTN-030-024 | 2000 | 300 | 240 | 4.9 | 33.9 | 275.4 | 1.430 | 3203 | 1543 |
| LTN-030-024 | 2200 | 300 | 240 | 5.4 | 37.3 | 303.0 | 1.430 | 3524 | 1697 |
| LTN-030-024 | 2400 | 300 | 240 | 6.0 | 40.7 | 330.5 | 1.430 | 3844 | 1852 |
| LTN-030-024 | 2600 | 300 | 240 | 6.5 | 44.0 | 358.1 | 1.430 | 4164 | 2006 |
| LTN-030-024 | 2800 | 300 | 240 | 7.0 | 47.4 | 385.6 | 1.430 | 4485 | 2160 |

# Zehnder Lateo

## Model LTN-040-008




H = Overall height
L = Length
T = Depth
V = Water content
M = Weight
$q_{ms}$ = Nominal water flow
n = Exponent
$\Phi_S$ = Nominal heat output to EN 442 (75/65/20 °C)
$\Phi$ = Thermal output at system temperatures

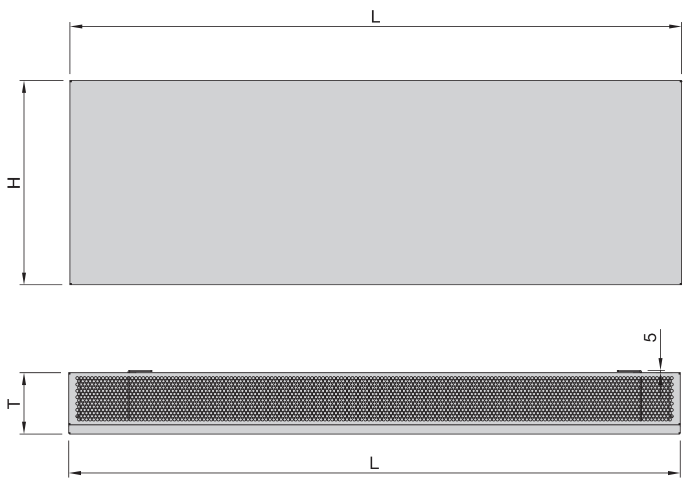
Dimensions in mm

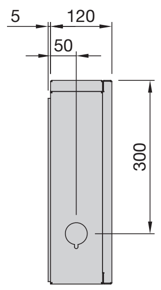
Technical specifications per wall convector

| Model | L<br>mm | H<br>mm | T<br>mm | V<br>dm³ | M<br>kg | $q_{ms}$<br>kg/h | Exp.<br>n | $\Phi_S$ = ΔT 50K<br>EN442<br>W | $\Phi$= ΔT 30K<br>55/45/20 °C<br>W |
|---|---|---|---|---|---|---|---|---|---|
| LTN-040-008 | 400 | 400 | 80 | 0.3 | 5.5 | 18.0 | 1.410 | 209 | 102 |
| LTN-040-008 | 500 | 400 | 80 | 0.5 | 6.8 | 22.5 | 1.410 | 261 | 127 |
| LTN-040-008 | 600 | 400 | 80 | 0.6 | 8.2 | 26.9 | 1.410 | 313 | 152 |
| LTN-040-008 | 700 | 400 | 80 | 0.8 | 9.5 | 31.4 | 1.410 | 366 | 178 |
| LTN-040-008 | 800 | 400 | 80 | 0.9 | 10.9 | 35.9 | 1.410 | 418 | 203 |
| LTN-040-008 | 900 | 400 | 80 | 1.1 | 12.3 | 40.4 | 1.410 | 470 | 229 |
| LTN-040-008 | 1000 | 400 | 80 | 1.2 | 13.6 | 44.9 | 1.410 | 522 | 254 |
| LTN-040-008 | 1100 | 400 | 80 | 1.4 | 15.0 | 49.4 | 1.410 | 574 | 280 |
| LTN-040-008 | 1200 | 400 | 80 | 1.6 | 16.3 | 53.9 | 1.410 | 627 | 305 |
| LTN-040-008 | 1400 | 400 | 80 | 1.9 | 19.1 | 62.9 | 1.410 | 731 | 356 |
| LTN-040-008 | 1600 | 400 | 80 | 2.2 | 21.8 | 71.8 | 1.410 | 836 | 407 |
| LTN-040-008 | 1800 | 400 | 80 | 2.5 | 24.5 | 80.8 | 1.410 | 940 | 457 |
| LTN-040-008 | 2000 | 400 | 80 | 2.8 | 27.2 | 89.8 | 1.410 | 1045 | 508 |

# Zehnder Lateo

## Model LTN-040-012




H = Overall height
L = Length
T = Depth
V = Water content
M = Weight
$q_{ms}$ = Nominal water flow
n = Exponent
$\Phi_S$ = Nominal heat output to EN 442 (75/65/20 °C)
Φ = Thermal output at system temperatures

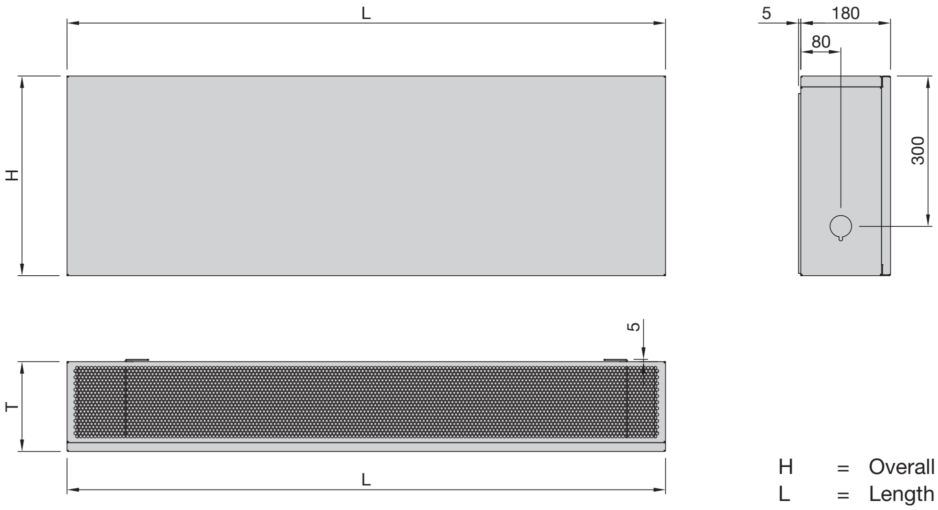
Dimensions in mm

Technical specifications per wall convector

| Model | L<br>mm | H<br>mm | T<br>mm | V<br>$dm^3$ | M<br>kg | $q_{ms}$<br>kg/h | Exp.<br>n | $\Phi_S$ = ΔT 50K<br>EN442<br>W | Φ= ΔT 30K<br>55/45/20 °C<br>W |
|---|---|---|---|---|---|---|---|---|---|
| LTN-040-012 | 400 | 400 | 120 | 0.2 | 5.7 | 26.6 | 1.426 | 310 | 149 |
| LTN-040-012 | 500 | 400 | 120 | 0.3 | 7.1 | 33.3 | 1.426 | 387 | 187 |
| LTN-040-012 | 600 | 400 | 120 | 0.5 | 8.5 | 39.9 | 1.426 | 465 | 224 |
| LTN-040-012 | 700 | 400 | 120 | 0.6 | 9.9 | 46.6 | 1.426 | 542 | 262 |
| LTN-040-012 | 800 | 400 | 120 | 0.7 | 11.3 | 53.3 | 1.426 | 619 | 299 |
| LTN-040-012 | 900 | 400 | 120 | 0.8 | 12.7 | 59.9 | 1.426 | 697 | 336 |
| LTN-040-012 | 1000 | 400 | 120 | 0.9 | 14.2 | 66.6 | 1.426 | 774 | 374 |
| LTN-040-012 | 1100 | 400 | 120 | 1.0 | 15.6 | 73.2 | 1.426 | 852 | 411 |
| LTN-040-012 | 1200 | 400 | 120 | 1.2 | 17.0 | 79.9 | 1.426 | 929 | 448 |
| LTN-040-012 | 1400 | 400 | 120 | 1.4 | 19.8 | 93.2 | 1.426 | 1084 | 523 |
| LTN-040-012 | 1600 | 400 | 120 | 1.6 | 22.6 | 106.5 | 1.426 | 1239 | 598 |
| LTN-040-012 | 1800 | 400 | 120 | 1.9 | 25.5 | 119.8 | 1.426 | 1394 | 673 |
| LTN-040-012 | 2000 | 400 | 120 | 2.1 | 28.3 | 133.1 | 1.426 | 1549 | 747 |

# Zehnder Lateo

## Model LTN-040-018




| | | |
|---|---|---|
| H | = | Overall height |
| L | = | Length |
| T | = | Depth |
| V | = | Water content |
| M | = | Weight |
| $q_{ms}$ | = | Nominal water flow |
| n | = | Exponent |
| $\Phi_S$ | = | Nominal heat output to EN 442 (75/65/20 °C) |
| $\Phi$ | = | Thermal output at system temperatures |

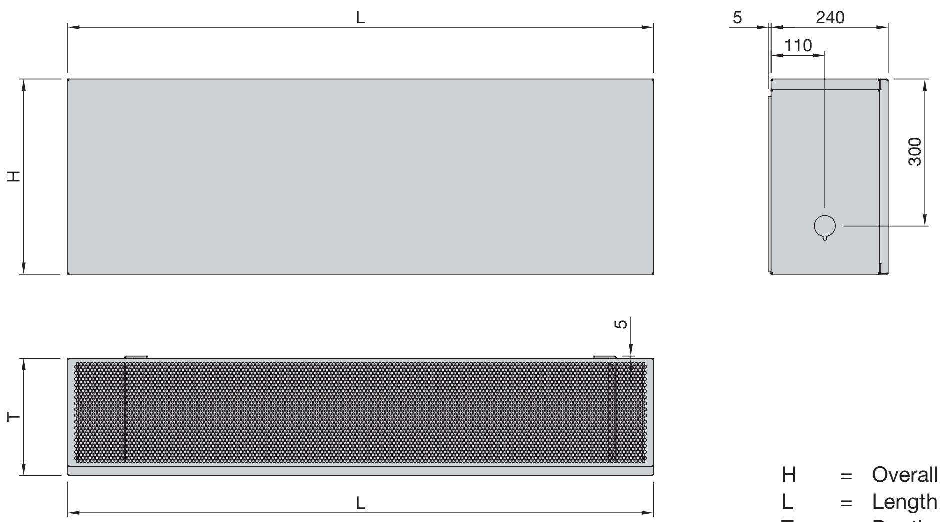
Dimensions in mm

Technical specifications per wall convector

| Model | L<br>mm | H<br>mm | T<br>mm | V<br>$dm^3$ | M<br>kg | $q_{ms}$<br>kg/h | Exp.<br>n | $\Phi_S$ = ΔT 50K EN442<br>W | Φ= ΔT 30K 55/45/20 °C<br>W |
|---|---|---|---|---|---|---|---|---|---|
| LTN-040-018 | 400 | 400 | 180 | 0.4 | 7.0 | 45.6 | 1.440 | 530 | 254 |
| LTN-040-018 | 500 | 400 | 180 | 0.6 | 8.7 | 57.0 | 1.440 | 663 | 318 |
| LTN-040-018 | 600 | 400 | 180 | 0.8 | 10.5 | 68.4 | 1.440 | 796 | 381 |
| LTN-040-018 | 700 | 400 | 180 | 1.0 | 12.2 | 79.8 | 1.440 | 928 | 445 |
| LTN-040-018 | 800 | 400 | 180 | 1.2 | 14.0 | 91.2 | 1.440 | 1061 | 508 |
| LTN-040-018 | 900 | 400 | 180 | 1.4 | 15.7 | 102.6 | 1.440 | 1193 | 572 |
| LTN-040-018 | 1000 | 400 | 180 | 1.6 | 17.5 | 114.0 | 1.440 | 1326 | 635 |
| LTN-040-018 | 1100 | 400 | 180 | 1.8 | 19.2 | 125.4 | 1.440 | 1458 | 699 |
| LTN-040-018 | 1200 | 400 | 180 | 2.0 | 21.0 | 136.8 | 1.440 | 1591 | 762 |
| LTN-040-018 | 1400 | 400 | 180 | 2.4 | 24.5 | 159.6 | 1.440 | 1856 | 890 |
| LTN-040-018 | 1600 | 400 | 180 | 2.7 | 28.0 | 180.4 | 1.440 | 2121 | 1017 |
| LTN-040-018 | 1800 | 400 | 180 | 3.1 | 31.5 | 205.2 | 1.440 | 2387 | 1144 |
| LTN-040-018 | 2000 | 400 | 180 | 3.5 | 35.0 | 228.0 | 1.440 | 2652 | 1271 |

# Zehnder Lateo

## Model LTN-040-024




| | | |
|---|---|---|
| H | = | Overall height |
| L | = | Length |
| T | = | Depth |
| V | = | Water content |
| M | = | Weight |
| $q_{ms}$ | = | Nominal water flow |
| n | = | Exponent |
| $\Phi_S$ | = | Nominal heat output to EN 442 (75/65/20 °C) |
| $\Phi$ | = | Thermal output at system temperatures |

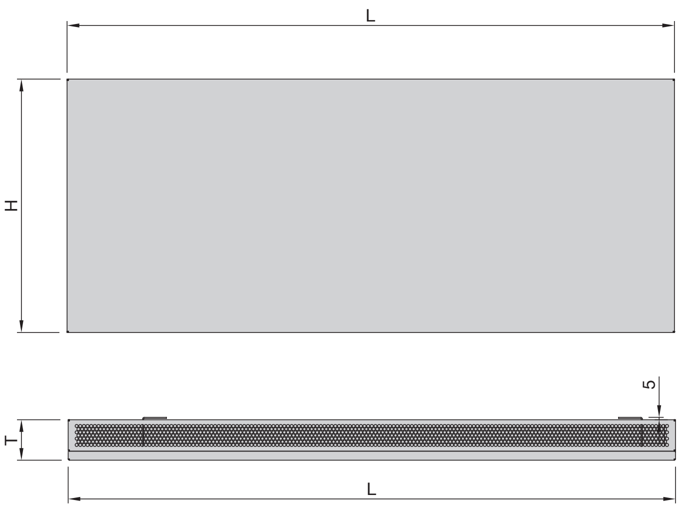
Dimensions in mm

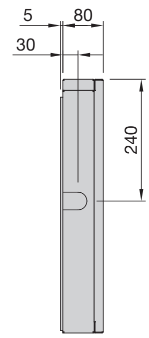
Technical specifications per wall convector

| Model | L<br>mm | H<br>mm | T<br>mm | V<br>$dm^3$ | M<br>kg | $q_{ms}$<br>kg/h | Exp.<br>n | $\Phi_S$ = ΔT 50K<br>EN442<br>W | Φ= ΔT 30K<br>55/45/20 °C<br>W |
|---|---|---|---|---|---|---|---|---|---|
| LTN-040-024 | 400 | 400 | 240 | 0.5 | 8.3 | 63.6 | 1.502 | 739 | 343 |
| LTN-040-024 | 500 | 400 | 240 | 0.8 | 10.4 | 79.5 | 1.502 | 924 | 429 |
| LTN-040-024 | 600 | 400 | 240 | 1.1 | 12.5 | 95.4 | 1.502 | 1109 | 515 |
| LTN-040-024 | 700 | 400 | 240 | 1.4 | 14.6 | 111.2 | 1.502 | 1294 | 601 |
| LTN-040-024 | 800 | 400 | 240 | 1.6 | 16.6 | 127.1 | 1.502 | 1479 | 687 |
| LTN-040-024 | 900 | 400 | 240 | 1.9 | 18.7 | 143.0 | 1.502 | 1664 | 772 |
| LTN-040-024 | 1000 | 400 | 240 | 2.2 | 20.8 | 158.9 | 1.502 | 1848 | 858 |
| LTN-040-024 | 1100 | 400 | 240 | 2.4 | 22.9 | 174.8 | 1.502 | 2033 | 944 |
| LTN-040-024 | 1200 | 400 | 240 | 2.7 | 25.0 | 190.7 | 1.502 | 2218 | 1030 |
| LTN-040-024 | 1400 | 400 | 240 | 3.3 | 29.1 | 222.5 | 1.502 | 2588 | 1201 |
| LTN-040-024 | 1600 | 400 | 240 | 3.8 | 33.3 | 254.3 | 1.502 | 2957 | 1373 |
| LTN-040-024 | 1800 | 400 | 240 | 4.3 | 37.4 | 286.1 | 1.502 | 3327 | 1545 |
| LTN-040-024 | 2000 | 400 | 240 | 4.9 | 41.6 | 317.8 | 1.502 | 3697 | 1716 |

# Zehnder Lateo

## Model LTN-050-008




H = Overall height
L = Length
T = Depth
V = Water content
M = Weight
$q_{ms}$ = Nominal water flow
n = Exponent
$\Phi_S$ = Nominal heat output to EN 442 (75/65/20 °C)
Φ = Thermal output at system temperatures

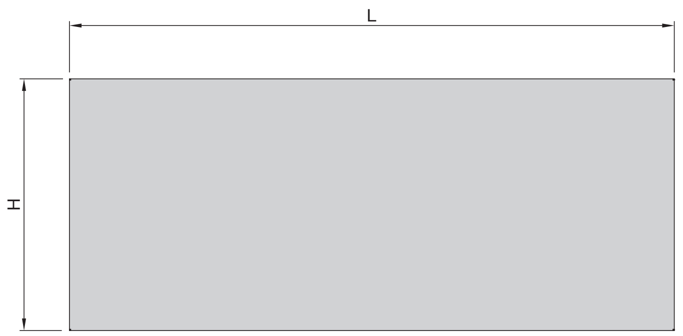
Dimensions in mm

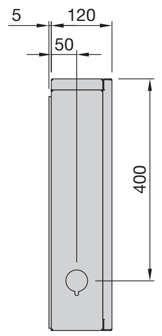
Technical specifications per wall convector

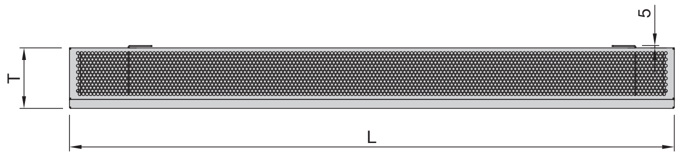
| Model | L<br>mm | H<br>mm | T<br>mm | V<br>dm³ | M<br>kg | $q_{ms}$<br>kg/h | Exp.<br>n | $\Phi_S$ = ΔT 50K<br>EN442<br>W | Φ= ΔT 30K<br>55/45/20 °C<br>W |
|---|---|---|---|---|---|---|---|---|---|
| LTN-050-008 | 400 | 500 | 80 | 0.3 | 6.3 | 19.8 | 1.410 | 231 | 112 |
| LTN-050-008 | 500 | 500 | 80 | 0.5 | 7.8 | 24.8 | 1.410 | 289 | 140 |
| LTN-050-008 | 600 | 500 | 80 | 0.6 | 9.4 | 29.8 | 1.410 | 346 | 168 |
| LTN-050-008 | 700 | 500 | 80 | 0.8 | 11.0 | 34.7 | 1.410 | 404 | 197 |
| LTN-050-008 | 800 | 500 | 80 | 0.9 | 12.5 | 39.7 | 1.410 | 462 | 225 |
| LTN-050-008 | 900 | 500 | 80 | 1.1 | 14.1 | 44.6 | 1.410 | 519 | 253 |
| LTN-050-008 | 1000 | 500 | 80 | 1.2 | 15.7 | 49.6 | 1.410 | 577 | 281 |
| LTN-050-008 | 1100 | 500 | 80 | 1.4 | 17.2 | 54.6 | 1.410 | 635 | 309 |
| LTN-050-008 | 1200 | 500 | 80 | 1.6 | 18.8 | 59.5 | 1.410 | 692 | 337 |
| LTN-050-008 | 1400 | 500 | 80 | 1.9 | 21.9 | 69.5 | 1.410 | 808 | 393 |
| LTN-050-008 | 1600 | 500 | 80 | 2.2 | 25.1 | 79.4 | 1.410 | 923 | 449 |

# Zehnder Lateo

## Model LTN-050-012




H = Overall height
L = Length
T = Depth
V = Water content
M = Weight
$q_{ms}$ = Nominal water flow
n = Exponent
$\Phi_S$ = Nominal heat output to EN 442 (75/65/20 °C)
$\Phi$ = Thermal output at system temperatures

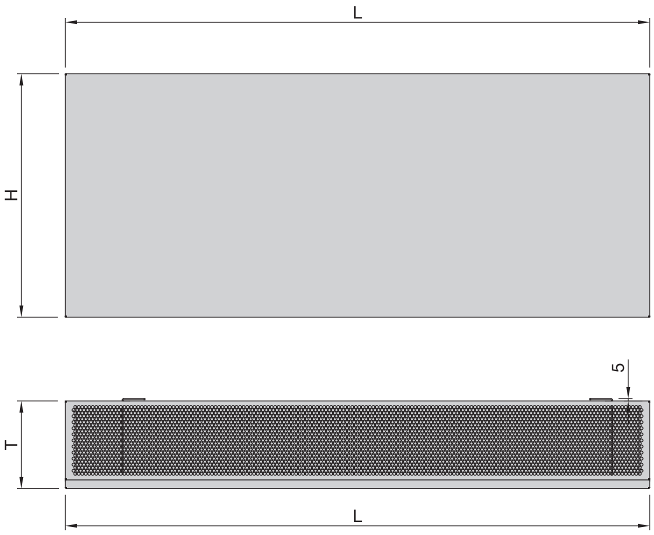
Dimensions in mm

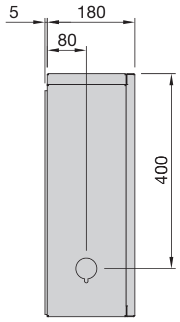
Technical specifications per wall convector

| Model | L<br>mm | H<br>mm | T<br>mm | V<br>$dm^3$ | M<br>kg | $q_{ms}$<br>kg/h | Exp.<br>n | $\Phi_S$ = ΔT 50K EN442<br>W | Φ= ΔT 30K 55/45/20 °C<br>W |
|---|---|---|---|---|---|---|---|---|---|
| LTN-050-012 | 400 | 500 | 120 | 0.2 | 6.6 | 29.7 | 1.430 | 345 | 166 |
| LTN-050-012 | 500 | 500 | 120 | 0.3 | 8.3 | 37.1 | 1.430 | 432 | 208 |
| LTN-050-012 | 600 | 500 | 120 | 0.5 | 9.9 | 44.5 | 1.430 | 518 | 250 |
| LTN-050-012 | 700 | 500 | 120 | 0.6 | 11.6 | 52.0 | 1.430 | 604 | 291 |
| LTN-050-012 | 800 | 500 | 120 | 0.7 | 13.2 | 59.4 | 1.430 | 691 | 333 |
| LTN-050-012 | 900 | 500 | 120 | 0.8 | 14.9 | 66.8 | 1.430 | 777 | 374 |
| LTN-050-012 | 1000 | 500 | 120 | 0.9 | 16.5 | 74.2 | 1.430 | 863 | 416 |
| LTN-050-012 | 1100 | 500 | 120 | 1.0 | 18.2 | 81.7 | 1.430 | 950 | 457 |
| LTN-050-012 | 1200 | 500 | 120 | 1.2 | 19.9 | 89.1 | 1.430 | 1036 | 499 |
| LTN-050-012 | 1400 | 500 | 120 | 1.4 | 23.2 | 103.9 | 1.430 | 1209 | 582 |
| LTN-050-012 | 1600 | 500 | 120 | 1.6 | 26.5 | 118.8 | 1.430 | 1381 | 665 |

# Zehnder Lateo

## Model LTN-050-018




H = Overall height
L = Length
T = Depth
V = Water content
M = Weight
$q_{ms}$ = Nominal water flow
n = Exponent
$\Phi_S$ = Nominal heat output to EN 442 (75/65/20 °C)
$\Phi$ = Thermal output at system temperatures

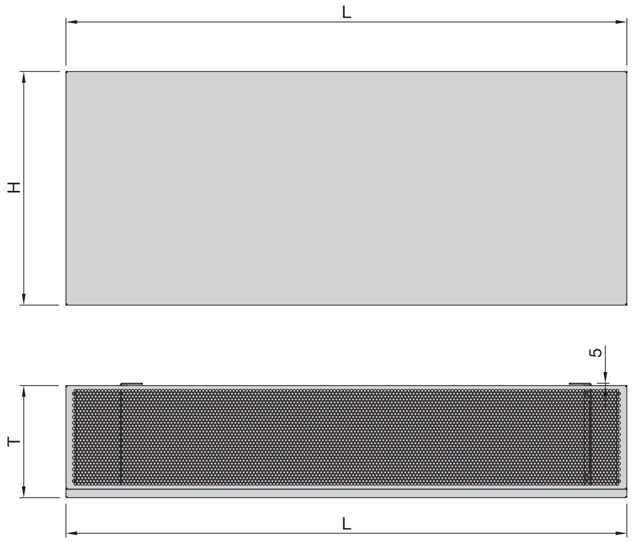
Dimensions in mm

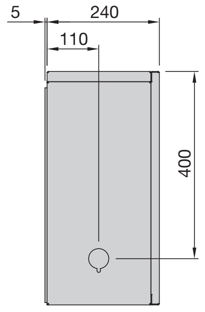
Technical specifications per wall convector

| Model | L<br>mm | H<br>mm | T<br>mm | V<br>dm³ | M<br>kg | $q_{ms}$<br>kg/h | Exp.<br>n | $\Phi_S$ = ΔT 50K<br>EN442<br>W | Φ= ΔT 30K<br>55/45/20 °C<br>W |
|---|---|---|---|---|---|---|---|---|---|
| LTN-050-018 | 400 | 500 | 180 | 0.4 | 8.2 | 51.5 | 1.440 | 599 | 287 |
| LTN-050-018 | 500 | 500 | 180 | 0.6 | 10.2 | 64.3 | 1.440 | 748 | 359 |
| LTN-050-018 | 600 | 500 | 180 | 0.8 | 12.2 | 77.2 | 1.440 | 898 | 430 |
| LTN-050-018 | 700 | 500 | 180 | 1.0 | 14.3 | 90.1 | 1.440 | 1048 | 502 |
| LTN-050-018 | 800 | 500 | 180 | 1.2 | 16.3 | 102.9 | 1.440 | 1197 | 574 |
| LTN-050-018 | 900 | 500 | 180 | 1.4 | 18.4 | 115.8 | 1.440 | 1347 | 646 |
| LTN-050-018 | 1000 | 500 | 180 | 1.6 | 20.4 | 128.7 | 1.440 | 1497 | 717 |
| LTN-050-018 | 1100 | 500 | 180 | 1.8 | 22.4 | 141.6 | 1.440 | 1646 | 789 |
| LTN-050-018 | 1200 | 500 | 180 | 2.0 | 24.5 | 154.4 | 1.440 | 1796 | 861 |
| LTN-050-018 | 1400 | 500 | 180 | 2.4 | 28.6 | 180.2 | 1.440 | 2095 | 1004 |
| LTN-050-018 | 1600 | 500 | 180 | 2.7 | 32.6 | 205.9 | 1.440 | 2395 | 1148 |

# Zehnder Lateo

## Model LTN-050-024




H = Overall height
L = Length
T = Depth
V = Water content
M = Weight
$q_{ms}$ = Nominal water flow
n = Exponent
$\Phi_S$ = Nominal heat output to EN 442 (75/65/20 °C)
Φ = Thermal output at system temperatures

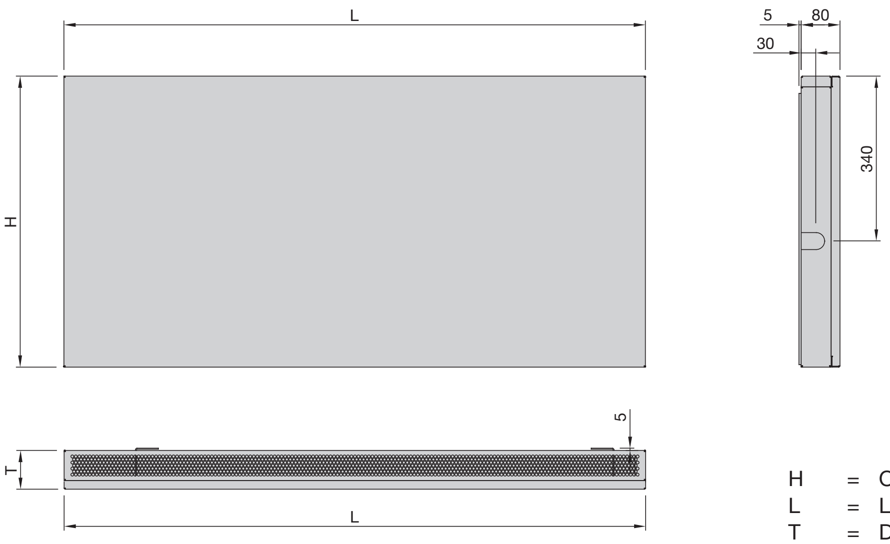
Dimensions in mm

Technical specifications per wall convector

| Model | L<br>mm | H<br>mm | T<br>mm | V<br>$dm^3$ | M<br>kg | $q_{ms}$<br>kg/h | Exp.<br>n | $\Phi_S$ = ΔT 50K<br>EN442<br>W | Φ= ΔT 30K<br>55/45/20 °C<br>W |
|---|---|---|---|---|---|---|---|---|---|
| LTN-050-024 | 400 | 500 | 240 | 0.5 | 9.1 | 73.3 | 1.500 | 853 | 396 |
| LTN-050-024 | 500 | 500 | 240 | 0.8 | 11.4 | 91.6 | 1.500 | 1066 | 495 |
| LTN-050-024 | 600 | 500 | 240 | 1.1 | 13.7 | 110.0 | 1.500 | 1279 | 594 |
| LTN-050-024 | 700 | 500 | 240 | 1.4 | 16.0 | 128.3 | 1.500 | 1492 | 693 |
| LTN-050-024 | 800 | 500 | 240 | 1.6 | 18.3 | 146.6 | 1.500 | 1705 | 793 |
| LTN-050-024 | 900 | 500 | 240 | 1.9 | 20.5 | 165.0 | 1.500 | 1919 | 892 |
| LTN-050-024 | 1000 | 500 | 240 | 2.2 | 22.8 | 183.3 | 1.500 | 2132 | 991 |
| LTN-050-024 | 1100 | 500 | 240 | 2.4 | 25.1 | 201.6 | 1.500 | 2345 | 1090 |
| LTN-050-024 | 1200 | 500 | 240 | 2.7 | 27.4 | 219.9 | 1.500 | 2558 | 1189 |
| LTN-050-024 | 1400 | 500 | 240 | 3.3 | 31.9 | 256.6 | 1.500 | 2984 | 1387 |
| LTN-050-024 | 1600 | 500 | 240 | 3.8 | 36.5 | 293.3 | 1.500 | 3411 | 1585 |

# Zehnder Lateo

## Model LTN-060-008




| | | |
|---|---|---|
| H | = | Overall height |
| L | = | Length |
| T | = | Depth |
| V | = | Water content |
| M | = | Weight |
| $q_{ms}$ | = | Nominal water flow |
| n | = | Exponent |
| $\Phi_S$ | = | Nominal heat output to EN 442 (75/65/20 °C) |
| $\Phi$ | = | Thermal output at system temperatures |

Dimensions in mm

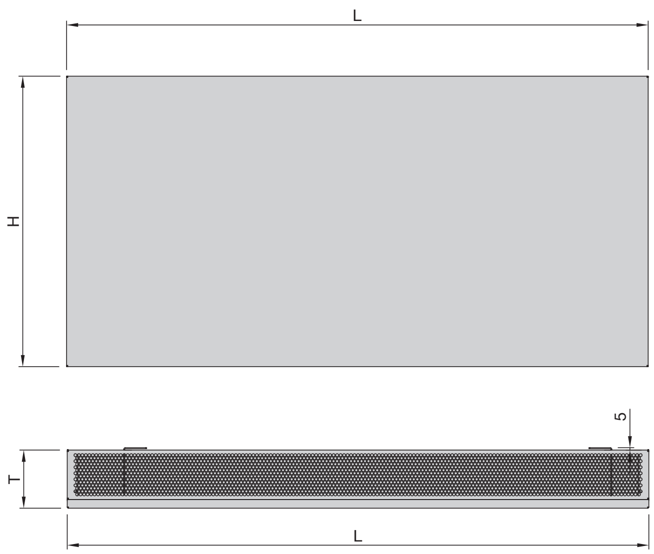
Technical specifications per wall convector

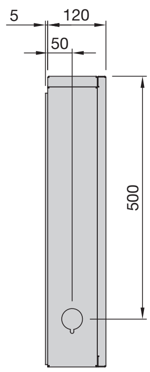
| Model | L<br>mm | H<br>mm | T<br>mm | V<br>$dm^3$ | M<br>kg | $q_{ms}$<br>kg/h | Exp.<br>n | $\Phi_S$ = ΔT 50K<br>EN442<br>W | Φ= ΔT 30K<br>55/45/20 °C<br>W |
|---|---|---|---|---|---|---|---|---|---|
| LTN-060-008 | 400 | 600 | 80 | 0.3 | 6.8 | 21.5 | 1.462 | 250 | 118 |
| LTN-060-008 | 500 | 600 | 80 | 0.5 | 8.5 | 26.9 | 1.462 | 312 | 148 |
| LTN-060-008 | 600 | 600 | 80 | 0.6 | 10.2 | 32.2 | 1.462 | 375 | 178 |
| LTN-060-008 | 700 | 600 | 80 | 0.8 | 11.9 | 37.6 | 1.462 | 437 | 207 |
| LTN-060-008 | 800 | 600 | 80 | 0.9 | 13.6 | 43.0 | 1.462 | 500 | 237 |
| LTN-060-008 | 900 | 600 | 80 | 1.1 | 15.3 | 48.3 | 1.462 | 562 | 266 |
| LTN-060-008 | 1000 | 600 | 80 | 1.2 | 17.0 | 53.7 | 1.462 | 625 | 296 |
| LTN-060-008 | 1100 | 600 | 80 | 1.4 | 18.7 | 59.1 | 1.462 | 687 | 326 |
| LTN-060-008 | 1200 | 600 | 80 | 1.6 | 20.4 | 64.4 | 1.462 | 750 | 355 |
| LTN-060-008 | 1400 | 600 | 80 | 1.9 | 23.8 | 75.2 | 1.462 | 874 | 414 |
| LTN-060-008 | 1600 | 600 | 80 | 2.2 | 27.2 | 85.9 | 1.462 | 999 | 474 |

# Zehnder Lateo

zehnder

## Model LTN-060-012




H = Overall height
L = Length
T = Depth
V = Water content
M = Weight
$q_{ms}$ = Nominal water flow
n = Exponent
$\Phi_S$ = Nominal heat output to EN 442 (75/65/20 °C)
$\Phi$ = Thermal output at system temperatures

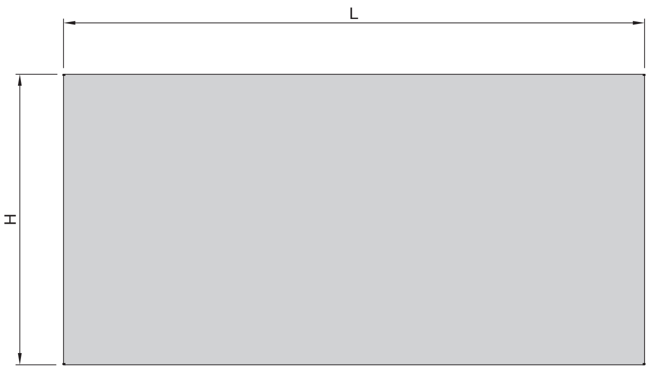
Dimensions in mm

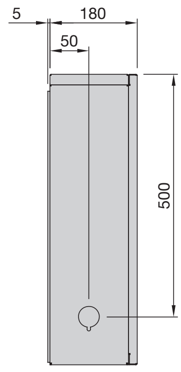
Technical specifications per wall convector

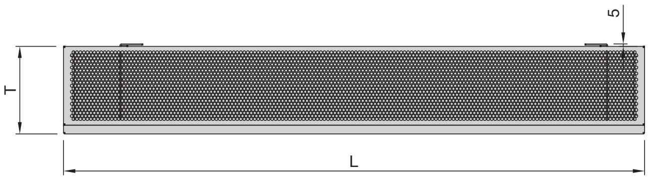
| Model | L | H | T | V | M | $q_{ms}$ | Exp. | $\Phi_S$ = ΔT 50K EN442 | Φ= ΔT 30K 55/45/20 °C |
|---|---|---|---|---|---|---|---|---|---|
| | mm | mm | mm | $dm^3$ | kg | kg/h | n | W | W |
| LTN-060-012 | 400 | 600 | 120 | 0.2 | 7.1 | 32.7 | 1.375 | 380 | 188 |
| LTN-060-012 | 500 | 600 | 120 | 0.3 | 8.9 | 40.8 | 1.375 | 475 | 235 |
| LTN-060-012 | 600 | 600 | 120 | 0.5 | 10.7 | 49.0 | 1.375 | 570 | 282 |
| LTN-060-012 | 700 | 600 | 120 | 0.6 | 12.5 | 57.2 | 1.375 | 665 | 329 |
| LTN-060-012 | 800 | 600 | 120 | 0.7 | 14.2 | 65.3 | 1.375 | 760 | 377 |
| LTN-060-012 | 900 | 600 | 120 | 0.8 | 16.0 | 73.5 | 1.375 | 855 | 424 |
| LTN-060-012 | 1000 | 600 | 120 | 0.9 | 17.8 | 81.7 | 1.375 | 950 | 471 |
| LTN-060-012 | 1100 | 600 | 120 | 1.0 | 19.6 | 89.8 | 1.375 | 1045 | 518 |
| LTN-060-012 | 1200 | 600 | 120 | 1.2 | 21.3 | 98.0 | 1.375 | 1140 | 565 |
| LTN-060-012 | 1400 | 600 | 120 | 1.4 | 24.9 | 114.4 | 1.375 | 1330 | 659 |
| LTN-060-012 | 1600 | 600 | 120 | 1.6 | 28.5 | 130.7 | 1.375 | 1520 | 753 |

# Zehnder Lateo

## Model LTN-060-018




H = Overall height
L = Length
T = Width
V = Water content
M = Weight
$q_{ms}$ = Nominal water flow
n = Exponent
$\Phi_S$ = Nominal heat output to EN 442 (75/65/20 °C)
$\Phi$ = Thermal output at system temperatures

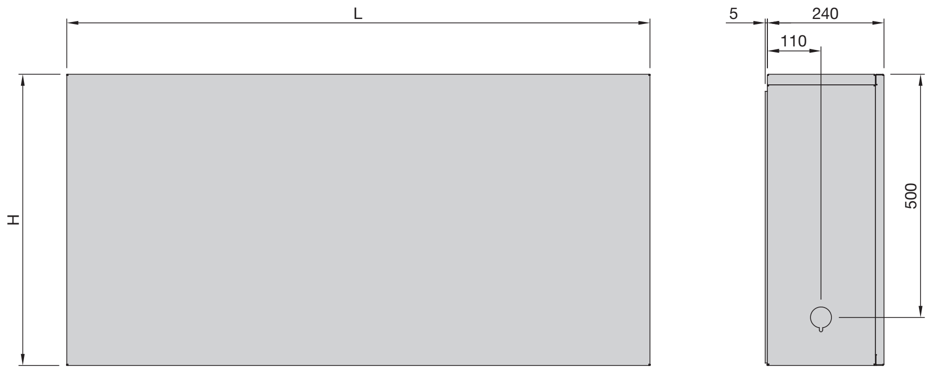
Dimensions in mm

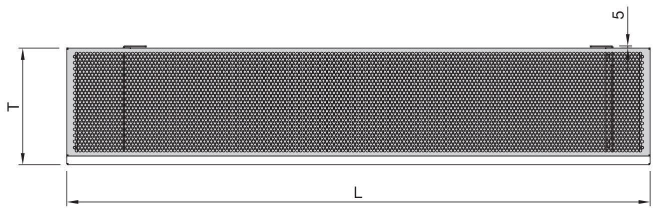
Technical specifications per wall convector

| Model | L<br>mm | H<br>mm | T<br>mm | V<br>$dm^3$ | M<br>kg | $q_{ms}$<br>kg/h | Exp.<br>n | $\Phi_S$ = ΔT 50K<br>EN442<br>W | Φ= ΔT 30K<br>55/45/20 °C<br>W |
|---|---|---|---|---|---|---|---|---|---|
| LTN-060-018 | 400 | 600 | 180 | 0.4 | 8.8 | 57.4 | 1.385 | 668 | 329 |
| LTN-060-018 | 500 | 600 | 180 | 0.6 | 11.0 | 71.8 | 1.385 | 835 | 411 |
| LTN-060-018 | 600 | 600 | 180 | 0.8 | 13.2 | 86.1 | 1.385 | 1002 | 494 |
| LTN-060-018 | 700 | 600 | 180 | 1.0 | 15.3 | 100.5 | 1.385 | 1168 | 576 |
| LTN-060-018 | 800 | 600 | 180 | 1.2 | 17.5 | 114.8 | 1.385 | 1335 | 658 |
| LTN-060-018 | 900 | 600 | 180 | 1.4 | 19.7 | 129.2 | 1.385 | 1502 | 740 |
| LTN-060-018 | 1000 | 600 | 180 | 1.6 | 21.9 | 143.5 | 1.385 | 1669 | 823 |
| LTN-060-018 | 1100 | 600 | 180 | 1.8 | 24.1 | 157.9 | 1.385 | 1836 | 905 |
| LTN-060-018 | 1200 | 600 | 180 | 2.0 | 26.3 | 172.2 | 1.385 | 2003 | 987 |
| LTN-060-018 | 1400 | 600 | 180 | 2.4 | 30.7 | 200.9 | 1.385 | 2337 | 1152 |
| LTN-060-018 | 1600 | 600 | 180 | 2.7 | 35.1 | 229.6 | 1.385 | 2671 | 1316 |

# Zehnder Lateo

## Model LTN-060-024




H = Overall height
L = Length
T = Depth
V = Water content
M = Weight
$q_{ms}$ = Nominal water flow
n = Exponent
$\Phi_S$ = Nominal heat output to EN 442 (75/65/20 °C)
Φ = Thermal output at system temperatures

Dimensions in mm

Technical specifications per wall convector

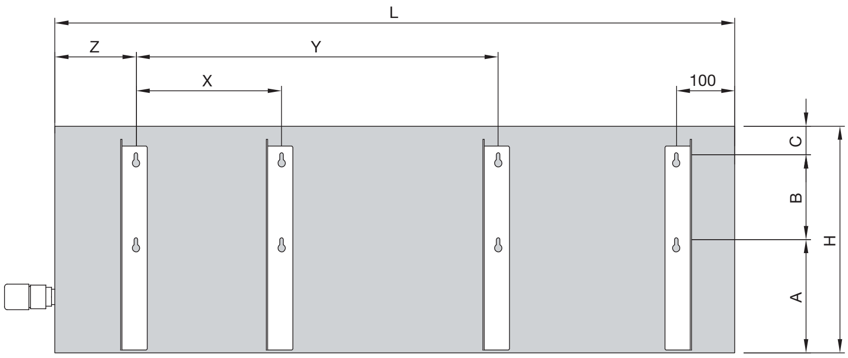
| Model | L<br>mm | H<br>mm | T<br>mm | V<br>$dm^3$ | M<br>kg | $q_{ms}$<br>kg/h | Exp.<br>n | $\Phi_S$ = ΔT 50K<br>EN442<br>W | Φ= ΔT 30K<br>55/45/20 °C<br>W |
|---|---|---|---|---|---|---|---|---|---|
| LTN-060-024 | 400 | 600 | 240 | 0.5 | 10.4 | 84.5 | 1.430 | 983 | 473 |
| LTN-060-024 | 500 | 600 | 240 | 0.8 | 13.0 | 105.6 | 1.430 | 1228 | 592 |
| LTN-060-024 | 600 | 600 | 240 | 1.1 | 15.6 | 126.7 | 1.430 | 1474 | 710 |
| LTN-060-024 | 700 | 600 | 240 | 1.4 | 18.3 | 147.9 | 1.430 | 1720 | 828 |
| LTN-060-024 | 800 | 600 | 240 | 1.6 | 20.9 | 169.0 | 1.430 | 1965 | 947 |
| LTN-060-024 | 900 | 600 | 240 | 1.9 | 23.5 | 190.1 | 1.430 | 2211 | 1065 |
| LTN-060-024 | 1000 | 600 | 240 | 2.2 | 26.1 | 211.2 | 1.430 | 2457 | 1183 |
| LTN-060-024 | 1100 | 600 | 240 | 2.4 | 28.7 | 232.3 | 1.430 | 2702 | 1302 |
| LTN-060-024 | 1200 | 600 | 240 | 2.7 | 31.3 | 253.5 | 1.430 | 2948 | 1420 |
| LTN-060-024 | 1400 | 600 | 240 | 3.3 | 36.5 | 295.7 | 1.430 | 3439 | 1657 |
| LTN-060-024 | 1600 | 600 | 240 | 3.8 | 41.7 | 338.0 | 1.430 | 3931 | 1893 |

# Zehnder Lateo

## Wall distances and fixing points - connections on left side

**Depth 80 mm**

**Heights: 200, 300, 400, 500, 600 mm**

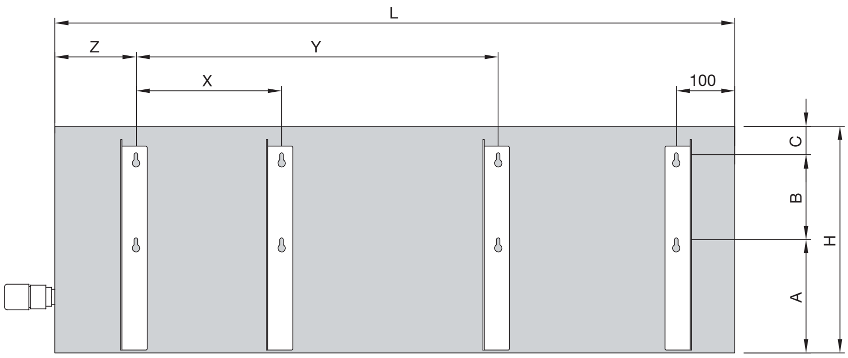



| H mm | A mm | B mm | C mm |
|---|---|---|---|
| 200 | 20 | 150 | 30 |
| 300 | 20 | 230 | 50 |
| 400 | 20 | 330 | 50 |
| 500 | 20 | 430 | 50 |
| 600 | 20 | 530 | 50 |

| Length mm | 400 - 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Number of axes | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| X mm | - | 640 | 690 | 740 | 790 | 840 | 890 | 940 | 990 | 695 | 730 | 760 | 795 | 830 | 860 |
| Y mm | - | - | - | - | - | - | - | - | - | 1390 | 1460 | 1520 | 1590 | 1660 | 1720 |
| Z mm | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 |

**Depths 120, 180, 240 mm**

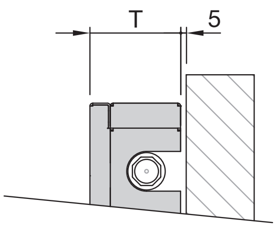
**Heights: 200, 300, 400, 500, 600 mm**




| H mm | A mm | B mm | C mm |
|---|---|---|---|
| 200 | 20 | 140 | 40 |
| 300 | 20 | 230 | 50 |
| 400 | 200 | 150 | 50 |
| 500 | 200 | 250 | 50 |
| 600 | 200 | 350 | 50 |

| Length mm | 400 - 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Number of axes | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| X mm | - | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 700 | 735 | 770 | 800 | 835 | 870 |
| Y mm | - | - | - | - | - | - | - | - | - | 1400 | 1470 | 1540 | 1600 | 1670 | 1740 |
| Z mm | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |

### Wall distance




L = Length
H = Height
T = Depth

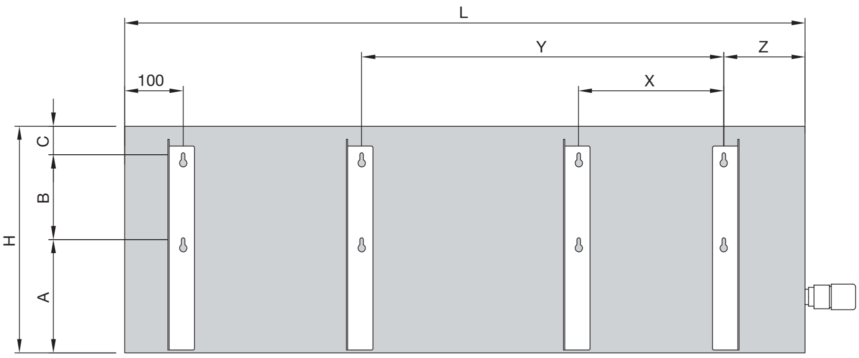
Dimensions in mm

# Zehnder Lateo

## Wall distances and fixing points - connections on right side

**Depth 80 mm**

**Heights: 200, 300, 400, 500, 600 mm**

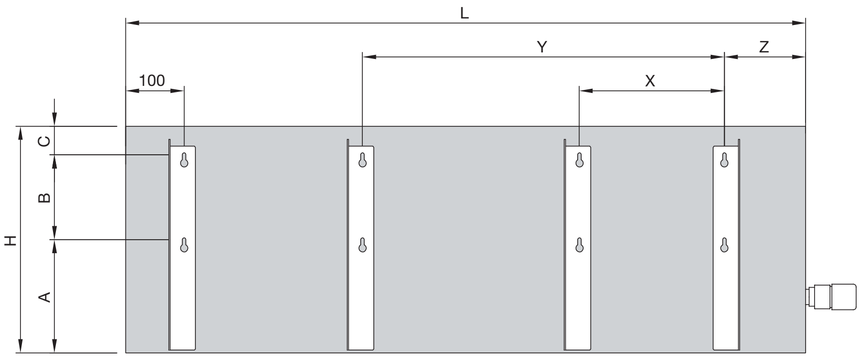



| H mm | A mm | B mm | C mm |
|---|---|---|---|
| 200 | 20 | 150 | 30 |
| 300 | 20 | 230 | 50 |
| 400 | 20 | 330 | 50 |
| 500 | 20 | 430 | 50 |
| 600 | 20 | 530 | 50 |

| Length mm | 400 - 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Number of axes | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| X mm | - | 590 | 640 | 690 | 740 | 790 | 840 | 890 | 940 | 645 | 680 | 710 | 745 | 780 | 810 |
| Y mm | - | - | - | - | - | - | - | - | - | 1335 | 1400 | 1470 | 1535 | 1600 | 1670 |
| Z mm | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 |

**Depths 120, 180, 240 mm**

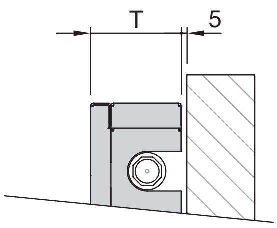
**Heights: 200, 300, 400, 500, 600 mm**




| H mm | A mm | B mm | C mm |
|---|---|---|---|
| 200 | 20 | 140 | 40 |
| 300 | 20 | 230 | 50 |
| 400 | 200 | 150 | 50 |
| 500 | 200 | 250 | 50 |
| 600 | 200 | 350 | 50 |

| Length mm | 400 - 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Number of axes | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| X mm | - | 590 | 640 | 690 | 740 | 790 | 840 | 890 | 940 | 645 | 680 | 710 | 745 | 780 | 810 |
| Y mm | - | - | - | - | - | - | - | - | - | 1335 | 1400 | 1470 | 1535 | 1600 | 1670 |
| Z mm | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |

## Wall distance




L = Length
H = Height
T = Depth

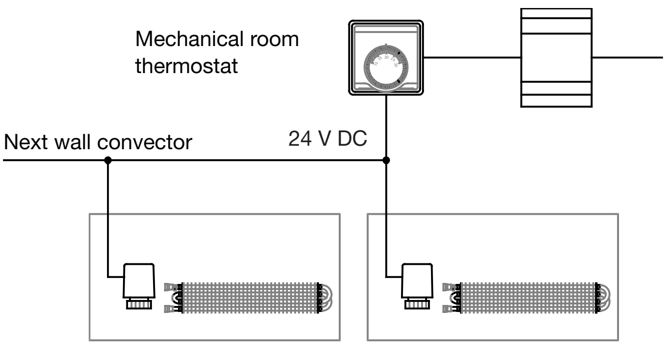
Dimensions in mm

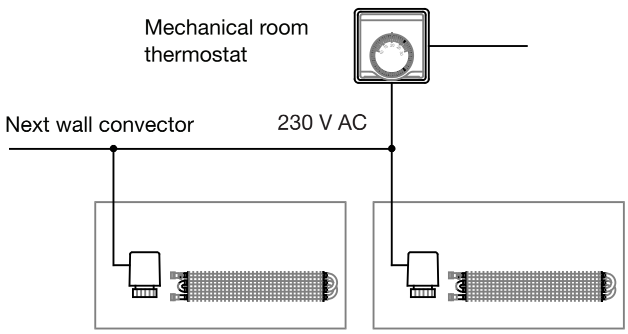
# Room thermostats

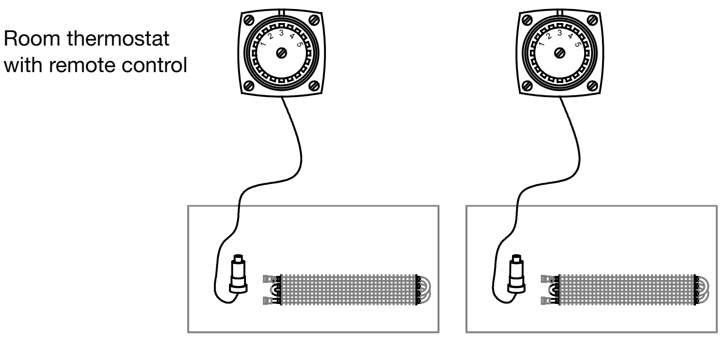
| Description | Accessories | Design | Article-No. | Application |
|---|---|---|---|---|
| **Digital room thermostat CU-230V-LCD**<br><br>Normally one room thermostat per room/zone is needed.<br><br>Room thermostat for controlling the room temperature of wall convectors with natural convection in combination with 24 V electrothermal actuators.<br><br>■ Controlling the room temperature<br>■ 2-point control behaviour with on/off control signal output for heating<br>■ Operating modes: comfort, economy, auto timer, protection mode<br>■ Automatic programme timer at 15-minute intervals<br>■ Adjustable commissioning control parameters<br>■ Supply voltage: 3 V DC (2x 1.5 V batteries)<br>■ Switching voltage: 230 V AC<br>■ Temperature range: 5–35 °C<br>■ Connection to up to 15 24 V actuator heads<br>■ Degree of protection IP30<br>■ Ambient temperature 0–50 °C<br>■ Relative air humidity <95%<br>■ Dimensions: 127 × 85 × 22 mm<br><br>Optional accessories<br>■ Temperature sensor SNSHEX- 2.5 M for heat emitter<br>■ Switching relay RLA-24VDC in case of more than 4 actuators |  | White<br>RAL9003 | 895510 | Control<br>LTN models |
| **Mechanical room thermostat CU-230 V-MAN**<br><br>Normally one room thermostat per room/zone is needed.<br><br>Mechanical room thermostat for controlling the room temperature of wall convectors with natural convection in combination with 24 V electrothermal actuators with an external 230 V AC / 24 V DC power supply.<br>Direct control without power supply for the actuator head with a voltage of 230 V AC.<br>Function open/closed.<br><br>■ Operating voltage: 24 V DC or 230 V AC<br>■ Max. connections to the actuators:<br>- 24 V DC – 10 × actuators ACT-24VDC, article no. 917190, 917190 or 917101<br>- 230 V AC – 30 × actuators ACT-230V, article no 917110<br>■ Adjustable control parameters<br>■ Temperature range: 10 to 30 °C<br>■ Degree of protection: IP30<br>■ Dimensions: 83 × 83 × 40 mm |  | White | 895530 | Control<br>LTN models |
| **Remote control**<br><br>Thermostat with integrated fluid sensor, for controlling the room temperature of wall convectors with natural convection, proportional controller without auxiliary energy blockage, limitation and restriction of the reference value range possible, threaded connection M30x1.5 with 5 m capillary tube<br><br>Temperature range: 9 to 26 °C<br>Frost protection temperature 9 °C<br>Mode: proportional control<br>Operating temperature: no additional energy<br><br>Dimensions: 75 × 75 mm, sensor ø 50 × 68 mm |  | White<br>RAL9016 | 895520 | Control<br>LTN models |

# Actuators and power supplies

| Description | Accessories | Design | Article-No. | Application |
|---|---|---|---|---|
| **24 V DC actuator head**<br><br>ACT-24VDC-3M cable length 3 m<br>ACT-24VDC-5M cable length 5 m<br><br>ACT-24 VDC-3M-W cable length 3 m<br><br>Open/close function (without voltage closed), input voltage: 24 VDC, power consumption: at switch-on 6 VA, input at operation: 2.5 W, opening/closing time: 270 s, IP54 cover of the casing, adapter to valve: M30×1.5 mm, total height at max. lift : 74 mm<br><br>Optional accessories:<br>Switching relay RLA-24 VDC in the case of more than 4 actuators (manual room thermostat) or more than 10 actuators (digital room thermostat) | <br> | Jet Black RAL9005<br><br>White RAL9016 | 917180<br>917190<br><br>917101 | Control LTF models or LTN models with additional power supply |
| **230 V DC actuator head**<br><br>ACT-230 V-3 M cable length 3 m<br><br>Open/close function (without voltage closed), input voltage: 24 VDC, power consumption: at switch-on 6 VA, input at operation: 2.5 W, opening/closing time: 270 s, IP54 cover of the casing, adapter to valve: M30×1.5 mm, total height at max. lift : 74 mm<br><br>Optional accessories:<br>Switching relay RLA-24 VDC in the case of more than 4 actuators (manual room thermostat) or more than 10 actuators (digital room thermostat) |  | Jet Black RAL9005 | 917110 | Control LTN models |



# Actuators and power supplies

| Description | Accessories | Design | Article-No. | Application |
|---|---|---|---|---|
| **Power supply PSP-24 VDC**<br><br>Converts the mains voltage of 230 V AC to a safe voltage of 24 V DC, power supply ready for installation on DIN rail, IP20.<br><br>For the placement provide sufficient space in the switchboard.<br>PSP-24 VDC-60 W and PSP-24 VDC-100 W may be installed in the box COB-234 for in-wall installation. Max. distance from wall convector: 40 m.<br><br>The power supplies are to be sized according to the number of installed wall convectors and have to be placed outside of the wall convectors in a switchboard or in a collecting box.<br>A power reserve of 5% is to be provided.<br><br>Several wall convectors can be connected to one power supply as per the dimensioning software or the section on planning notes for LTF models and power consumption of LTF models.<br><br>Optional a power supply with protection class IP54 (splash water proof) inside the casing. | | | | |
| **Power supply PSP-24 VDC-60 W**<br><br>Output: 24 V / 2.5 A / 60 W<br>L x H x D:: 78 x 93 x 56 mm |  | | 895130 | Control LTF models |
| **Power supply PSP-24 VDC-100 W**<br><br>Output: 24 V / 4.5 A / 100 W<br>L x H x D:: 100 x 93 x 56 m |  | | 895140 | Control LTF models |
| **Power supply PSP-24 VDC-240 W**<br><br>Output: 24 V / 10 A / 240 W<br>L x H x D:: 125.2 x 100 x 125.5 mm |  | | 895150 | Control LTF models |
| **Power supply PSP-24 VDC-480 W**<br><br>Output: 24 V / 20 A / 480 W<br>L x H x D:: 227 x 125 x 100 mm |  | | 895160 | Control LTF models |

# General accessories

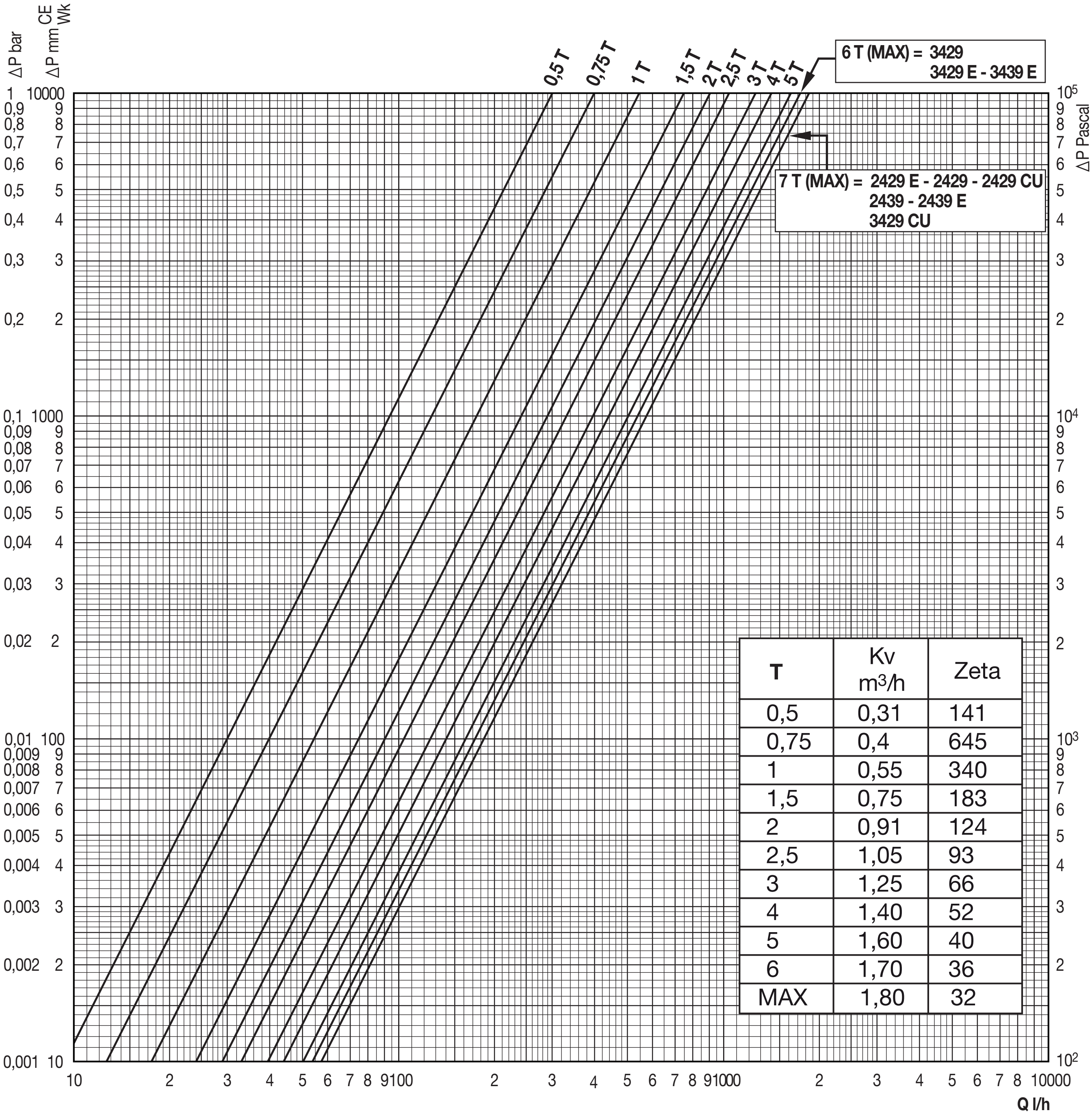
| Description | Accessories | Design | Article-No. | Application |
|---|---|---|---|---|
| **Relays 24 V RLA-24 VDC**<br><br>On the digital room thermostat CU-24 VDC-LCD max. 10 actuators can be connected. On the manual room thermostat CU-24 VDC-MAN max. 4 actuators can be connected. If the number of installed actuators is higher use relays RLA-24 VDC according to the electric scheme 2.<br><br>Operating voltage 24 V DC, protection class IP20, switching current 12 A, switched off without voltage,<br><br>operating temperature -10 to 60 °C, L x H x T: 37 × 39 × 20 mm |  | White | 895180 | Control LTF models |
| **Box for power supply COB-234**<br><br>Cover with screws, for instances when more supplies need to be installed or when space in the switchboard is not sufficient. For the optional installation of the power supplies PSP-24 VDC-60 W and PSP- 24 VDC-100 W, for installation on DIN rail, under plaster mounting, L x H x W: 234 × 176 × 79 mm |  | White | 895170 | Control LTF models |
| **Temperature sensor SNS-HEX-2.5 M**<br><br>Monitors temperature of the wall convector. When the heat emitter is cold, it will not switch on fans and actuators. Recommended to prevent operation if the heat emitter is cold or in the summer. Positioning at flow or return on main pipes/ring circuit/distributor outside of wall convector.<br><br>Connection to thermostat CU-24 VDC-LCD, measuring range 0-40 °C, measuring sensor NTC, 3 Ω at 25 °C, measuring accuracy at 25 °C: ±0.3K, cable length approx. 2.5 m, can be adjusted, max. total length 80 m, temperature range 0-49 °C, incl. clamp and zip tie for mounting.<br><br>The cable length for sensors at the inputs X1, X2 and D1 is max. 80 m.<br><br>Further parameters have to be set on the room thermostat for this function (available on request). |  | Black | 917370 | Control LTF models |
| **Room temperature sensor RSNS-NTC**<br><br>Measures room temperature on a different room than the place where the thermostat CU-24 VDC-LCD is installed.<br><br>Connection to thermostat CU-24 VDC-LCD, measuring range 0-40 °C, measuring sensor NTC, 3 Ω at 25 °C, measuring accuracy at 25 °C: ±0.3K, IP30, operating temperature 0–50 °C, relative humidity <85%, L x H x T: 97 × 100 × 36mm.<br><br>The cable length for sensors at the inputs X1, X2 and D1 is max. 80 m. |  | White RAL9003 | 917380 | Control LTF models |

# Valves and thermostat heads

| Description | Accessories | Design | Article-No. |
|---|---|---|---|
| **Thermostatic valve axial**<br>Axial shaped version with G½" internal thread to heating pipe and external thread to wall convector.<br>Valve unit nickel-plated; thermostat head threaded connection M30 x 1.5 with 10 mm extension<br>Operating temperature max. 120 °C, Operating pressure max. 10 bar |  | Nickel-plated | 829152 |
| **Corner thermostatic valve**<br>Corner version with G½" internal thread to heating pipe and external thread to wall convector.<br>Valve unit nickel-plated; thermostat head threaded connection M30 x 1.5 with 10 mm extension<br>Operating temperature max. 120 °C, Operating pressure max. 10 bar |  | Nickel-plated | 829182 |
| **Angled return connection**<br>Angled version with G½" internal thread to heating pipe and external thread to wall convector, possibility to shut off and pre-setting.<br>Valve unit nickel-plated<br>Operating temperature max. 120 °C, Operating pressure max. 10 bar |  | Nickel-plated | 829172 |
| **Straight return connection**<br>Straight version with G½" internal thread to heating pipe and external thread to convector, shut off and pre-set options available.<br>Valve unit nickel-plated<br>Operating temperature max. 120 °C, Operating pressure max. 10 bar |  | Nickel-plated | 829162 |
| **Thermostat head A409**<br>made of metal,<br>with integrated fluid sensor, tested according to EN 215.<br>Energy efficiency class A according to the “Thermostatic Efficiency Label”.<br>For thermostat head threaded connection M30 x 1.5 with union nut |  | White<br>Chrome | 841271<br>841278 |
| **Thermostat head A498**<br>made of ABS,<br>with integrated fluid sensor, tested according to EN 215.<br>For thermostat head threaded connection M30 x 1.5 with union nut |  | White<br>Chrome | 853931<br>853938 |

# Valve characteristic values

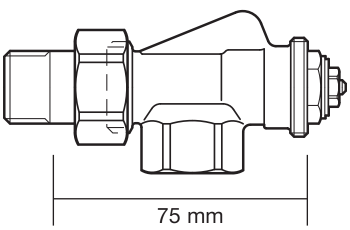
**Pressure drop and pre-setting diagram for return connection**



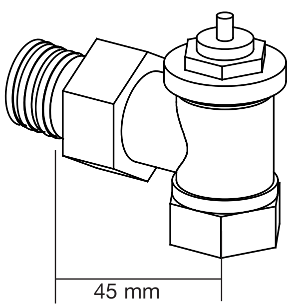

| T | Kv m³/h | Zeta |
|---|---|---|
| 0,5 | 0,31 | 141 |
| 0,75 | 0,4 | 645 |
| 1 | 0,55 | 340 |
| 1,5 | 0,75 | 183 |
| 2 | 0,91 | 124 |
| 2,5 | 1,05 | 93 |
| 3 | 1,25 | 66 |
| 4 | 1,40 | 52 |
| 5 | 1,60 | 40 |
| 6 | 1,70 | 36 |
| MAX | 1,80 | 32 |

**T = Turns**

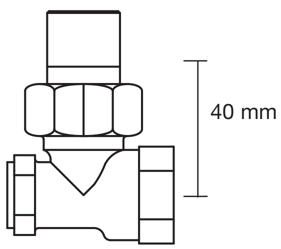
**Thermostatic valve axial**



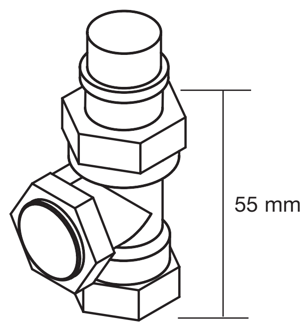

**Corner thermostatic valve**




**Angled return connection**




**Straight return connection**



zehnder

| Description: Zehnder Lateo |
|---|
| Zehnder Lateo wall convector with natural convection comprising removable case and wall mounting bracket. Made of sheet steel, grille with round hole pattern Ø 5.5 mm, pre-punched cut-out Ø 42 mm for installation of the thermostat radiator valve (TRV). |

Heat emitter made of copper and aluminium, painted in RAL9005 Jet Black, attached behind the casing. Connections: 2 x ½" internal thread for same-end connection, connections at the bottom with 50 mm to the centre of the connection, on the right or left side, hidden connection technology integrated in the casing, including pre-assembled 1/8" vent. Casing and grille painted with powder coating in colour RAL 9016. Delivered ready to install in cardboard packing box with protection corners.

- Thermal output tested to: EN442
- Operating temperature: max. 110 °C
- Operating pressure: max. 10 bar
- Available in heights: 200 mm – 600 mm, in 100 mm increments.
- Width: 80 mm, 120 mm, 180 mm & 240 mm
- Length: 400 mm – 2,800 mm in 100 mm increments
- Connection: Left or right side, same side at the bottom for wall or floor mounting
- Option for grille with rectangular hole pattern 29.5 x 4.5 mm

Surcharge for finish in special RAL colour.

# Notes

# Colour system

## Standard

**Traffic White**
9016* / RAL 9016
Code: B1

## Antimicrobial surface

TopCare [1]
9316 / RAL 9016

**Surcharge as colour category 2**

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## Colour category 1

Includes the selection of special colours shown here, **surcharge on the standard RAL 9016 finish: 20%**

### Architectural

**Pure White**
9010* / RAL 9010
Code: B4

**Anthracite Grey**
7016* / RAL 7016
Code: AW

**Traffic Black**
9217 / RAL 9017
Code: B5

**Jet Black**
9005* / RAL 9005
Code: B3

### Natural

**Edelweiss**
0067
Code: 67

**Cream**
9001* / RAL 9001
Code: AZ

**Pergamon**
0081*
Code: AI

**Jasmin**
0072
Code: 72

**Oyster White**
1013* / RAL 1013
Code: AJ

**Grey White**
9002* / RAL 9002
Code: B2

**Manhattan**
0077*
Code: A8

**Natura**
0035*
Code: 35

**Bahama**
0054*
Code: 54

**Chocolate Brown**
8017* / RAL 8017
Code: AY

### Tonic

**Traffic Yellow**
1023* / RAL 1023
Code: AL

**Flame Red**
3000* / RAL 3000
Code: ON

**Ruby Red**
3003* / RAL 3003
Code: AO

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## Colour category 2

Includes the following selection of colours, **surcharge on the standard RAL 9016 finish: 30%** .
All other special colours in the RAL, RAL-D, NCS-S, Sanitary, DB colour systems are also available as required, surcharge on request.

### Architectural

**White Matt**
0556
Code: DF

**White Quartz** [4]
0521
Code: DC

**White Aluminium**
9006*
Code: A7

**Titane** [3]
0335*
Code: A5

**Grey Aluminium**
9007*
Code: A3

**Anthracite**
0346
Code: A1

**Volcanic**
0336
Code: A6

**Black Matt**
0557
Code: DG

**Black Quartz**
0550
Code: DD

### Natural

**Chinchilla**
0064
Code: 64

**Petal**
0510*
Code: D2

**Sand Quartz**
0522
Code: BA

**Beige Quartz**
0523
Code: BB

**Caramel Quartz**
0511
Code: D3

**Terracotta Quartz**
0512
Code: D4

**Gold Look** [4]
0514*
Code: D5

**Brown Quartz**
0529
Code: BH

**Dark Brown**
0847
Code: BK

**Technoline** [1]
0325*
Code: TL

### Tonic

**Lemon**
0515*
Code: D6

**Orange Quartz**
0528
Code: BG

**Lichen**
8723 / NCS-S-2010-G60Y
Code: BQ

**Spring Green**
0846
Code: BI

**Mauve**
0517*
Code: D8

**Violet**
0518*
Code: D9

**Strawberry**
3770 / NCS-S-2065-R20B
Code: BN

**Dark Purple**
0848
Code: BL

**Amethyst Quartz**
0516
Code: D7

**Pacific Blue**
0519
Code: DA

**Horizon Blue**
0520*
Code: DB

**Prussian Blue**
0555*
Code: DE

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## Metal look

**Aluminium Look** [2]
9551*
Code: BW

**Surcharge as colour category 1**

[1] Exclusively for Zehnder Charleston.
[2] Exclusively for Zehnder Dualis.
[3] Not for Zehnder Dualis .
[4] Not for Zehnder Nova, Zehnder Excelsior or Zehnder Dualis .
* These colours have a glossy finish, all others are matt.

Due to different manufacturing techniques of the original colours, deviations can occur (in colour and polish).
RAL and NCS are designations from the manufacturer. Special colours on request.
The respective colour code (EDI) is set at the 9th and 10th places in the article no.

## Explanation

**Colour name**
Zehnder no./Colour standard
Zehnder EDI code

Z-MASTER-V0819, RAD-PRL-Lateo, en, subject to change without notice

Zehnder Group UK Limited · Concept House, Watchmoor Point · Camberley · Surrey · GU15 3AD
T +44 1276 408404 · info@zehnder.co.uk · www.zehnder.co.uk