



Atrium / Loggia

Service & maintenance



1.0 Installation

1.1 Product description

Lindab's heating and cooling panels Atrium /Loggia can be mounted almost anywhere in the ceiling or on the wall and primarily provide heating/cooling by radiation. The radiation share for the panels exceeds 50% to 60%, compared to approx. 5% for conventional finned products. Since the air velocities can be kept low, this result in a draught-free environment. Radiant heating can also be used with high ceiling heights since the radiant heating, despite the high placement, heats the underlying surfaces directly without any losses to the air.

1.2 Handling

The beam must be handled with care, ensuring that the beam does not sustain dents, scratches or bends during installation.

Always seek to lift the beam at multiple points.

- Do not lift in pipes
- Do not lift in edges
- Each beam is equipped with protective film to avoid any damage during transport and handling at building site. The film needs to be removed before commissioning the products.

1.3 Mounting instruction

- Please visit www.lindQST.com
 - Select Documentation Finder
 - Select "Atrium" or "Loggia"
 - Select "Mounting"

1.4 Connection description water

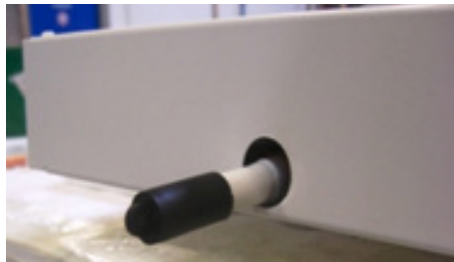
Flow indication arrows are shown on the inlet and return pipes in order to assist the installer. If the beam has been ordered with integrated valves, a special direction of the flow must be upheld to ensure correct flow through the thermostatic valve. If the beam has been delivered without integrated valves, the flow can be reversed, depending on the location of the retrofitted valve. Please note the flow direction indicator on the valve to insure correct installation in relation to the desired flow.

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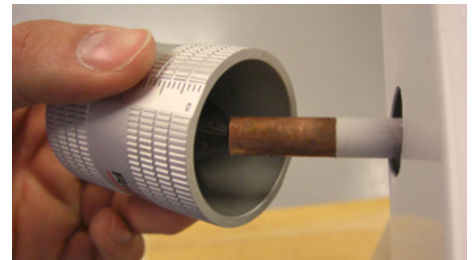
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1.4.1 Push-on fittings

- Please ensure that all pipes and fittings are undamaged, as even small dents and scratches potentially pose a risk of leakage in the system. Always remember to do a pressure test after assembly of the pipe work.
- Both flow and return pipe is covered by a plastic or rubber protection cover, which should be removed before installation.



After removing the protection cover, make sure that the pipe is intact and undamaged, especially at the pipe end. Crooked or in other ways imperfect pipe ends will result in leaks. Deburr the pipe on the inside and the outside, using a deburring tool before installation.



- Mount a push-on fitting to the pipe. Make sure to press the fitting all the way onto the pipe. Consult the installation guide for the specific fitting for further details on proper installation.

Push-on fitting



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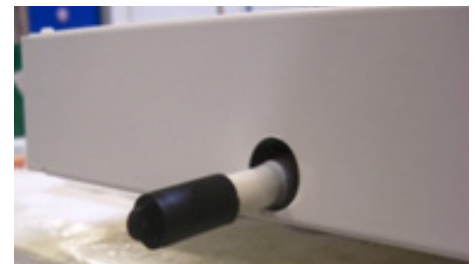
Push-on valve



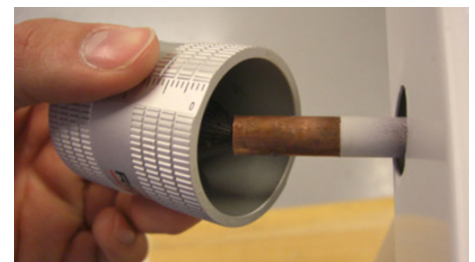
Notice! The connection pipes are internally soft-welded why it's not allowed to solder the beam to the pipes.

1.4.2 Compression fitting

- Please ensure that all pipes and fittings are undamaged, as even small dents and scratches potentially pose a risk of leakage in the system. Always remember to do a pressure test after assembly of the pipe work.
- While mounting a compression fitting, the pipe will be exposed to a big amount of force, creating a risk of crushing the pipe. To ensure that the pipe won't be crushed when mounting the compression fitting, a copper insert should be inserted into the pipe.
- Both flow and return pipe is covered by a plastic or rubber protection cover during transport, which must be removed before installation.



- After removing the protection cover, make sure that the pipe is intact and undamaged, especially at the pipe end. Crooked or in other ways imperfect pipe ends will result in leaks. Deburr the pipe on the inside and the outside, using a deburring tool before installation.



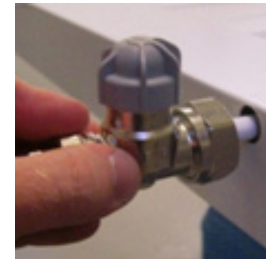
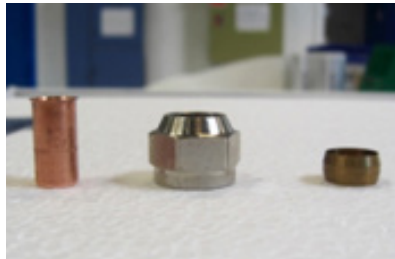
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- The copper insert should be placed inside the pipe on the beam. Always support the copper pipe coil when inserting the copper insert into position.



- Mount a compression coupling and/or a valve to the pipe. Don't stress the nut too much, since this may crush the pipe.



Notice! The connection pipes are internally soft-welded why it's not allowed to solder the beam to the pipes.

1.4.3 Flex hoses

Our flexible hoses can be used with both compression and Tectite fitting. We recommend using Tectite fittings, for easier and faster mounting.

- Please ensure that all pipes and fittings are undamaged, as even small dents and scratches potentially pose a risk of leakage in the system. Always remember to do a pressure test after assembly of the pipe work.
- Both flow and return pipe is covered by a plastic or rubber protection cover, which should be removed before installation.



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After removing the protection cover, make sure that the pipe is intact and undamaged, especially at the pipe end. Crooked or in other ways imperfect pipe ends will result in leaks. Deburr the pipe on the inside and the outside, using a deburring tool before installation.



- Mount a push-on fitting to the pipe. Make sure to press the fitting all the way onto the pipe. After mounting the push-on fitting, mount the flexible hose. Make sure that the flexible hose is pushed fully into the fitting. Consult the installation guide for the specific fitting for further details on proper installation.

Push-on fitting



Push-on valve



Notice! The connection pipes are internally soft-welded why it's not allowed to solder the beam to the pipes.

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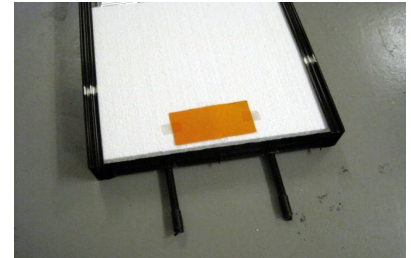
2.0 Commissioning

2.1 Product labeling



Atrium H Fig.1: Label location exterior (On insulation, above water connection).

Atrium C Fig.1: Label location exterior (Under insulation, above water connection).



Loggia Fig.1: Label location exterior (On insulation, above water connection).




Atrium H Fig.2: Label location interior (Under insulation, above water connection).



Loggia Fig.2: Label location interior (Under insulation, above water connection).

On the label you'll find:

- Order: Order identification number.
- Pos: Order position.
- Product: Product configuration.
- Project: Project name.
- Mark: Marking noted on order.
- Nozzles: Number of nozzles.
- Plugs: Number of plugged nozzles.
- Product ID: Product number.
- Sign: To be signed when checked and commissioned on site.

Order: Ordernumber	
Pos: 10	
Product 0,00 m	
Pressure: Pa	Flow: l/s
Project: Project	
Mark: Mark	
Nozzels: 999 Plugs	Sign: _____
Product ID: 8 011-10-1	
	

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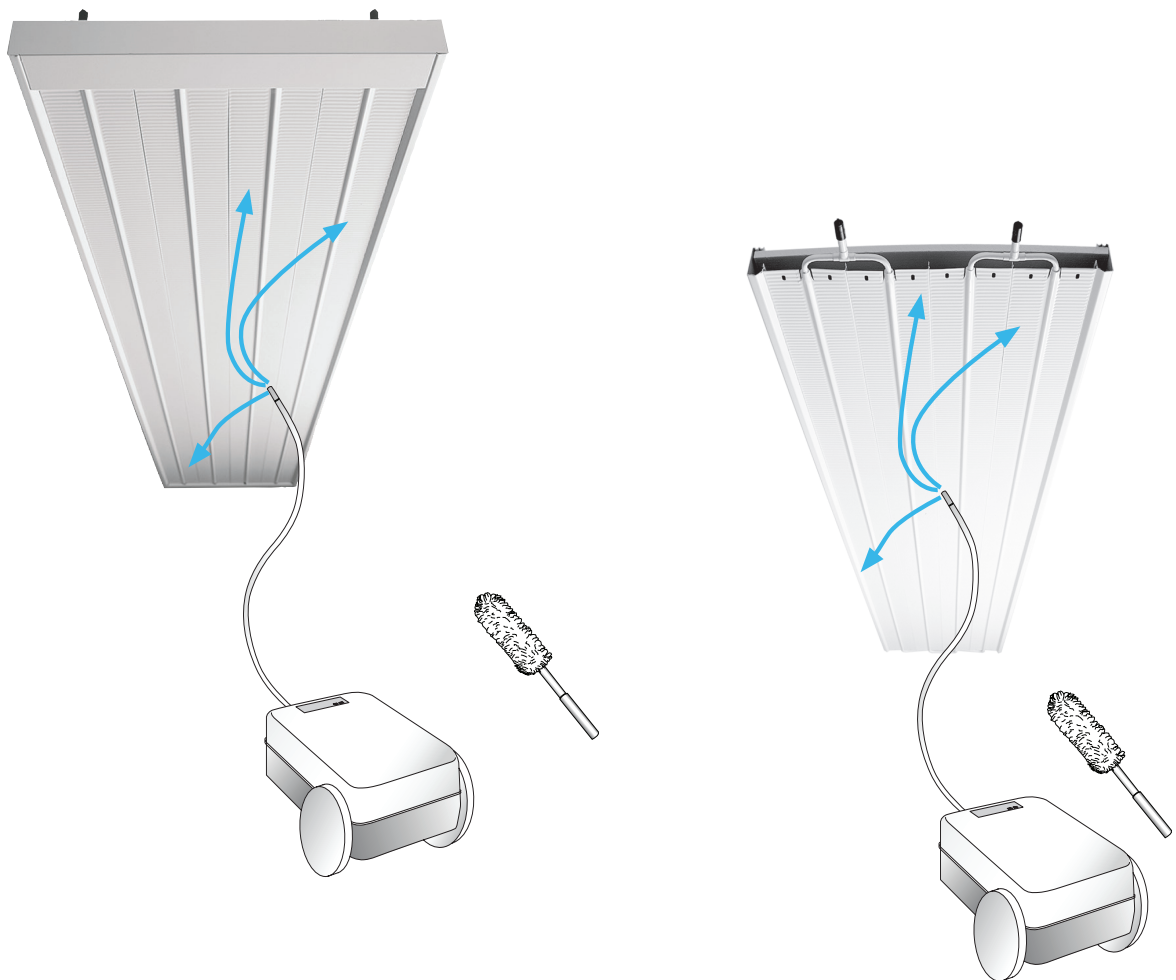
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3.0 Maintenance

The interval of cleaning depends on the indoor environment where the beam is placed. Under optimal conditions the Atrium beams only need cleaning every 5 years.

3.1 Cleaning instructions

- Only use lukewarm water and a mild detergent.
- When cleaning from above, the ceiling plate next to the panel must be removed - then it will be possible to clean the panel from above.



4.0 Product and system specification

4.1 Material data

	Atrium 33	Atrium 60	Atrium 87
Dry weight, [kg/m]	1.3	2.2	3.1
Water content, [l/m]	0.18	0.35	0.53
Copper pipes, quality	EN 12735-2 CU-DHP		
Pressure class	PN10		
Expansion at *HW: + 55/45°C	0.7 mm/m		
Expansion at *HW: + 80/60°C	1.2 mm/m		

*HW - Hot Water

4.2 Environmental declaration

Please follow the links below

- [Building product declaration](#)
- [Declaration of conformity](#)
- [Eurovent certificate](#)

4.3 Pressure Class

The waterborne products in Lindab, active chilled beams (battery products), passive chilled beams (battery and strips products), facade units (battery) and radiant panels (strips and panels) are produced according to pressure class PN10 according to EN 1333: 2006.

This means the maximal working pressure for the products at a water temperature of 20°C must not exceed 10 bar.

4.4 Water quality

Lindab recommend water treatment and quality to be according to VDI 2035-2.

- The water preparation and maintenance for the chilled beam water circuit should be handled by a specialist.
- To prevent corrosion, the water circuit must be airtight.
- The water system must also be equipped with aerators to remove any build-up air in the system.
- The water should be oxygen free, to prevent corrosion.
- The water system must be filled with potable water that complies with the “EC directive 98/83/EC”.
- pH value of water must be between approximately 6-9 pH.
- The water velocities should not exceed 1m/s, and should be kept as close to the nominal flow as possible to minimize noise and optimize the energy yield.
- There should be used in-line strainers to remove dirt particles from the water.
- If the water contains any additive inhibitor this must be appropriate to use with copper and solder.



Support
Hjælp
Hjälp
Tuotetuki
Unterstützung
Supporto

UK - Here you can find product updates/mounting instructions and support telephone number/mail.

www.lindab.com

Right to alterations reserved.

DK - Her kan du finde seneste produkt opdateringer/montagevejledninger samt support tlf. nr/mail.

www.lindab.dk

Ret til ændringer forbeholdes.

SE - Här kan du alltid hitta senaste produktuppdateringarna/montageanvisningarna samt support tel. /e-mail.

www.lindab.se

Rätt till ändringar förbehålles.

FI - Täältä löydät uusimmat tuotetiedot ja asennusohjeet sekä tuotetuen yhteystiedot.

www.lindab.fi

Oikeus muutoksiin pidätetään.

DE - Hier finden Sie aktuelle Produktinformationen/ Montageanleitungen und Telefonnummer/ E-Mail-Adressen der Ansprechpartner.

www.lindab.de

Änderungen vorbehalten.

IT - Qui potete trovare istruzioni di montaggio, informazioni sul prodotto ed un supporto tecnico qualificato
Tel. 011 9952099 - e-mail: lindab@lindab.it

www.lindab.it

Soggetto a modifica senza obbligo di preavviso.

FR - Vous trouverez les fiches produits ou de montage actualisées ainsi que les coordonnées du support téléphonique à l'adresse suivante :

www.lindab.fr

Toutes modifications réservées.

**Do you have trouble finding your local contacts
please go to:**

www.lindab.com

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