



Premax

Service & maintenance





Premax

1.0 Installation

1.1 Product description

Lindab's high performance supply air beam Premax can be used for cooling, heating and ventilation. Water valves, actuators, Regula Secura, Regula Combi and Regula Connect can all be built into the Premax beam.

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 "Premax"
 - Select "Mounting"

1.4 Air connection installation

The primary air supply should be connected with instructions from a ventilation specialist. Lindab's chilled beams can beneficially be used together with Lindab's Safe® duct systems.

1.5 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.



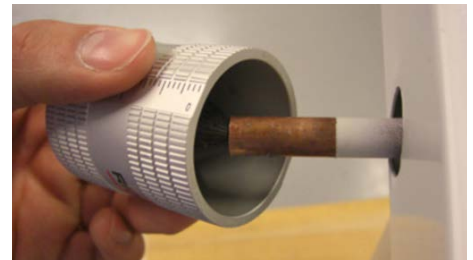
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1.5.1 Push-on fittings

- 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.

1.5.2 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.

1.5.3 Flex hoses

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

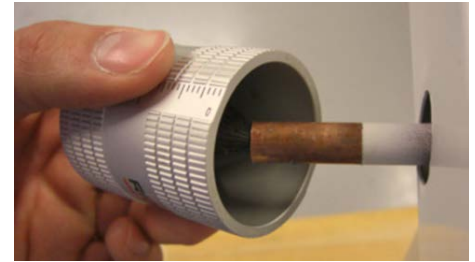
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After removing the protection cover, make sure that the pipe is intact and undamaged, especially at the pipe end. Crooked or in other ways imperfect pipe ends will result in leaks. Deburr the pipe on the inside and the outside, using a deburring tool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



Fig.1: Label location exterior (water connection) Fig.2: Label location interior (battery end).

On the label you'll find:

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

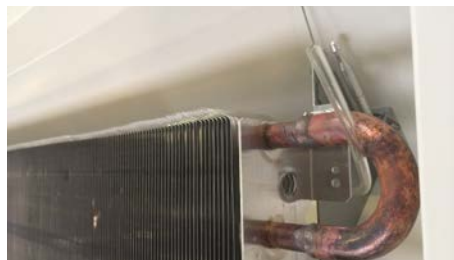
Order: Ordernumber			
Pos: 10			
Product		0,00 m	
Pressure:	Pa	Flow:	l/s
Project: Project			
Mark: Mark			
Nozzels:	999	Plugs:	Sign: _____
Product ID:	8 011-10-1		
			

2.2 Measure air pressure and calculating the airflow.

Before calculating the airflow, the static nozzle pressure must first be measured. The static nozzle pressure is the air pressure available at the nozzles.

2.2.1 Measure the static nozzle pressure.

- To measure the air pressure, a manometer, analog or digital (such as the Lindab PC410) will be needed.
- Insert the measuring tube onto the specialized measuring nozzle



- Read off the static nozzle pressure from the manometer



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2.2.2 Calculating the airflow

- After measuring the static nozzle pressure, read the setting of the four pins in the corners to find the mean value of the pins.
- Locate the diagram on the faceplate or see diagram 1-2, and use the static nozzle pressure and the mean value of the pins to find the current airflow.

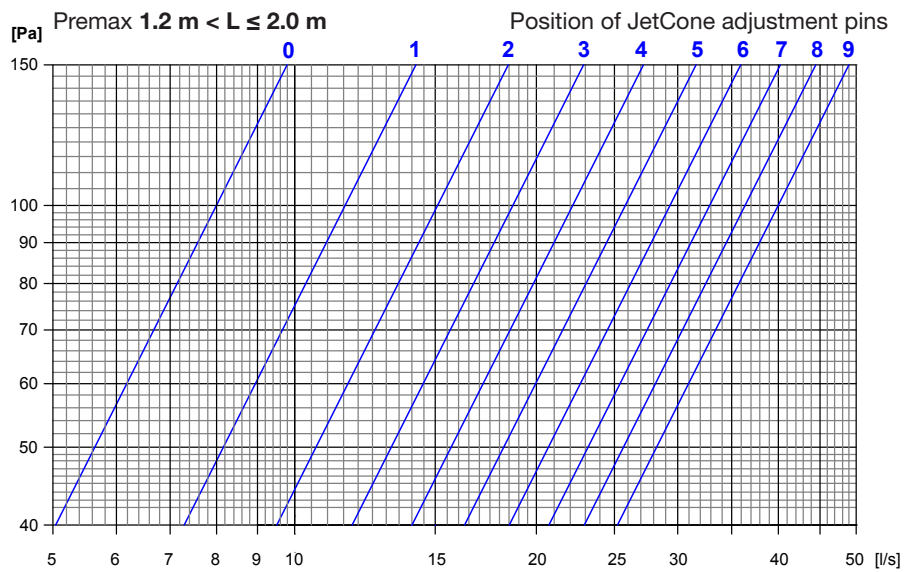


Diagram 1

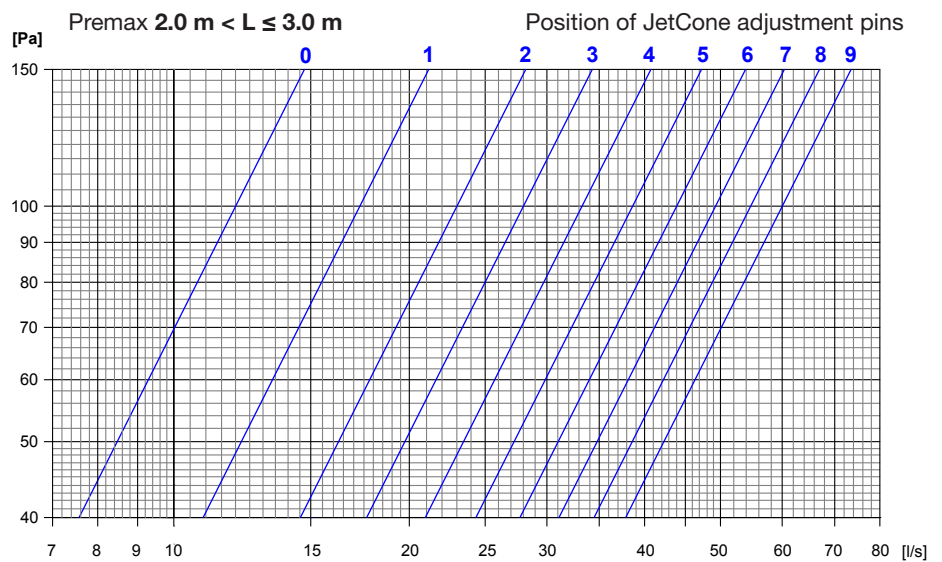


Diagram 2



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2.3 Changing the airflow

- Measure the static nozzle pressure
- Locate the air pressure/airflow diagram on the faceplate, or see diagram 1-2.
- Find the mean value of the four pins to reach the desired airflow, in the diagram on the faceplate. Use the static nozzle pressure and the desired airflow to find the mean value of the four pins.
- Adjust the four pins in the corners, so the mean value of the pins will correspond with the mean value found in the diagram.
- Example: Pin setting: $6+6+8+8 = 28 / 4 = \text{mean value } 7$.

2.4 Changing the air pattern (with plus feature AirGuide)

ONLY POSSIBLE IF THE BEAM WAS DELIVERED WITH AIRGUIDE

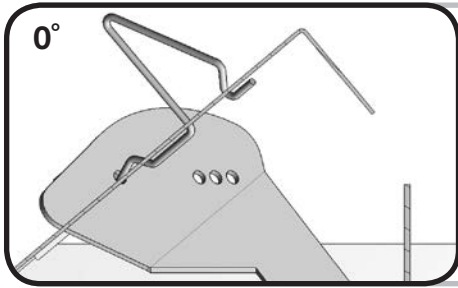
- Press the Airguide retaining clip to retract the clip from the Airguide deflector.
- Align the Airguide deflector in the desired position.
- Release the Airguide retaining in the new position.

A Each deflector has 2 adjustment "clips".
 hver deflektor har 2 justerings "clips".
 Varje luftriktare har 2 justerings "clips".
 Jokaisessa ohjaimessa on kaksi pidäkeklipsiä.
 Jedes Luftlenkelement ist mit zwei Klammern befestigt.
 Ogni deflettore ha 2 clips di regolazione.
 Chaque déflecteur a 2 clips d'ajustement.

Possible "clips" positions.
 Mulige "clips" positioner.
 Möjliga "clips" positioner.
 Mahdolliset pidäkeklipsien säätöasennot.
 Mögliche Einstellungen.
 Possibili posizionamenti delle clips.
 Positions possibles des clips.

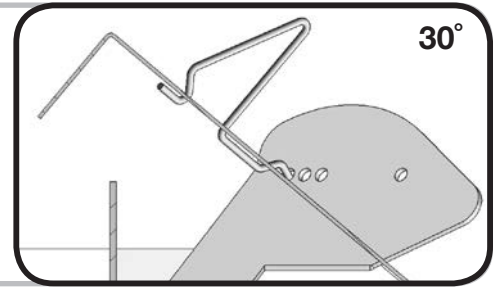


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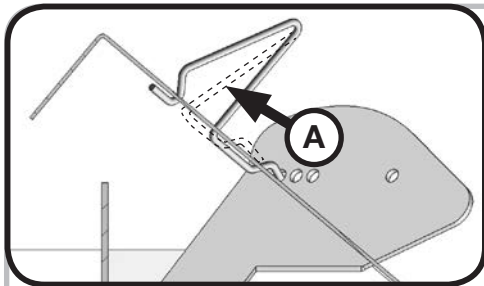


0°

**Example
Eksempel
Exempel
Esimerkki
Beispiel
Esempio
Exemple**

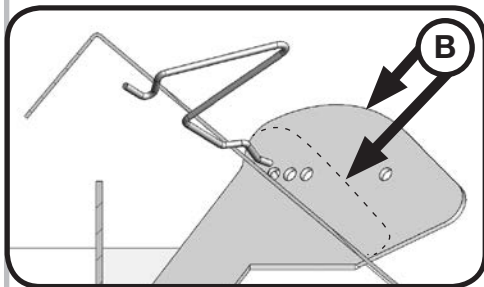


30°



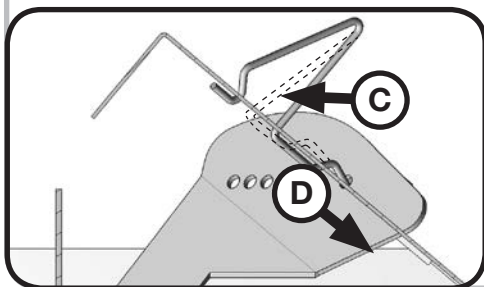
A

Press and release "clips" from deflector position.
Tryk og frigør "clips" fra deflektor position.
Tryck ihop och frisläpp Clipset från luftriktarpöositionen.
Vapauta pidäkeklipsi ohjaimesta.
Klammer zusammendrücken und aushaken.
Premere e sganciare le clips dalla posizione corrente del deflettore.
Pousser et relâcher les "clips" de la position défecteur.



B

Align deflector at desired position.
Tilpas deflektor til ønsket position.
Sätt luftriktaren i önskad position.
Säädä haluttuun asentoon.
Luftlenkelement in gewünschte Position bringen.
Regolare il deflettore nella posizione desiderata.
Aligner le défecteur à la position souhaitée.

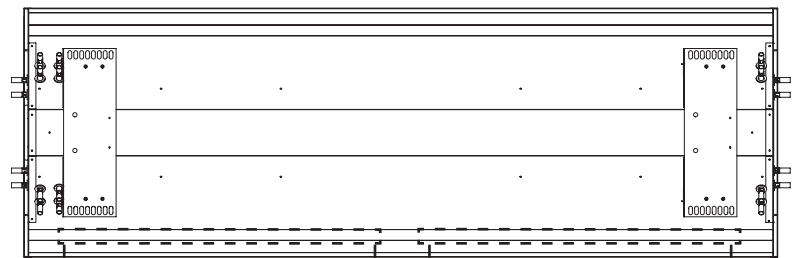


C

D

Press and release "clips" so it slips into new position.
Tryk og slip "clips" så den glider ind i ny position.
Tryck och släpp clipset så att det glider in i sin nya position.
Kiinnitä pidäkeklipsi uuteen asentoon.
Klammer zusammendrücken und Klammer wieder einhaken.
Premere e rilasciare le clips nella nuova posizione.
Pousser et relâcher les "clips" à la nouvelle position.

**Recommended configurations
Anbefalede konfigurationer
Rekommenderade konfigurationer
Suositellut säätöasennot
Empfohlene Einstellungen
Configurazioni raccomandate
Configurations recommandées**



30°	10°	10°	30°
20°	10°	10°	20°
30°	30°	30°	30°
0°	0°	0°	0°



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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 Premax beams only need cleaning every 5 years.

3.1 Cleaning instructions

- Remove the faceplate
- Clean underneath the battery with a vacuum cleaner and a piece of wet cloth
- Only use lukewarm water and a mild detergent.





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4.0 Product and system specification

4.1 Material data

	Premax
Weight, kg/m	18
Water content, cooling, l/m	1,6
Water content, heating, l/m	0,25
Copper pipes, quality	EN 12735-2 CU-DHP
Pressure class	PN10

4.2 Environmental declaration

- Please visit www.lindqst.com
 - Select Documentation Finder
 - Select “Premax”
 - Select “Environmental declaration”

4.3 Working and test pressure

- Lindab’s waterborne products have been manufactured and tested according to the Pressure Equipment Directive 97/237EC. The products are classified as SEP – Sound Engineering Practice.
- Pressure table

Pressure class	PN10
Max. working pressure	10 bar
Max. recommended dynamic pressure	0,2 bar
Max. test pressure	16 bar

- Even though the battery of the chilled beam can withstand a very high static working pressure, we recommend a much lower dynamic working pressure, to avoid noise issues from the valves.

4.4 Water quality

- 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”.



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- 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.

4.5 Air quality

- Primary supply air should be clean and filtered before reaching the beam.

4.6 Capacity test

- Lindabs active chilled beams are Eurovent-certified and tested according to EN-15116.



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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
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www.lindab.it

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