

**-°COOL EXPERT-**

# **Defrosting With SHUT UP®**

**Mounting and  
Assembly guide**

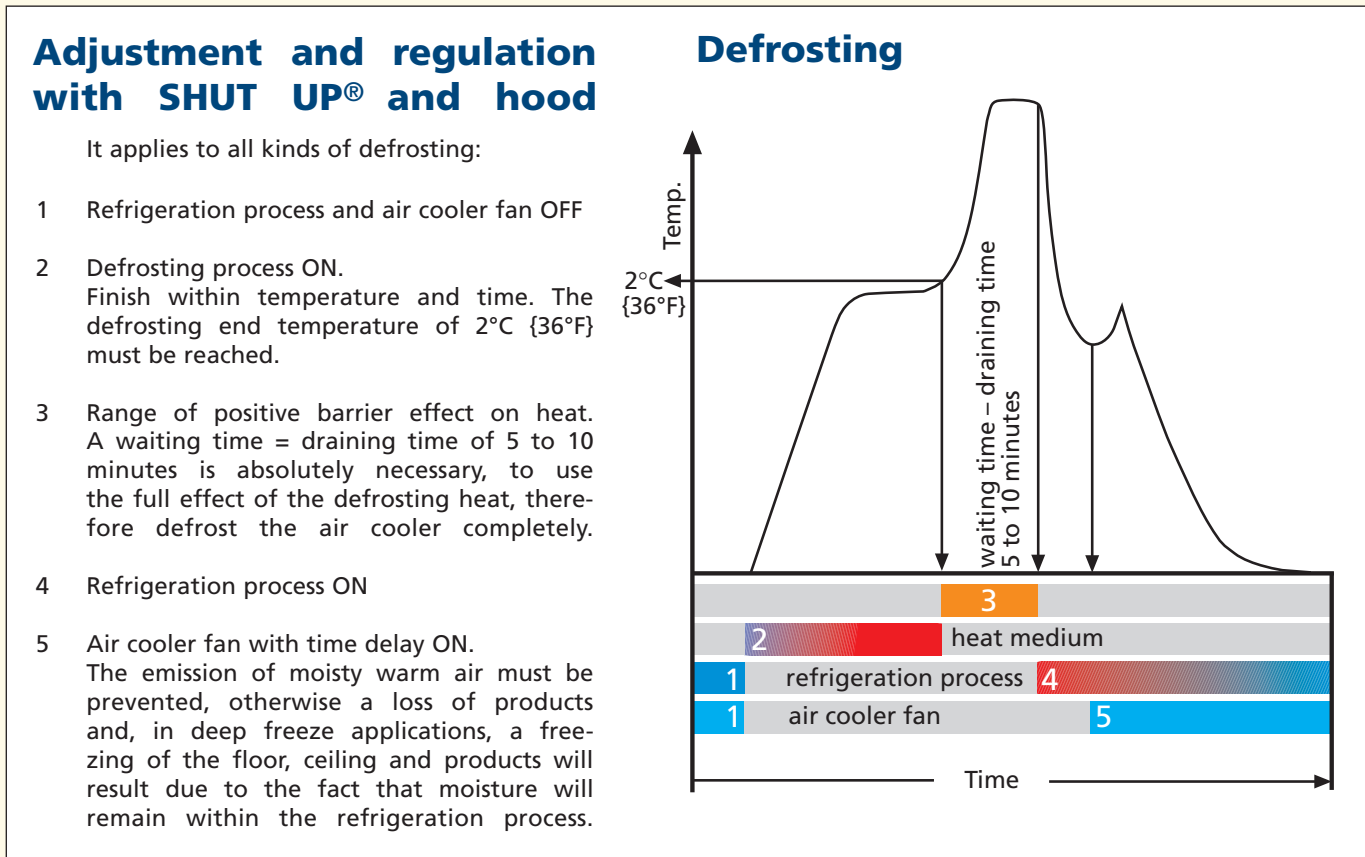
**The only way  
to get an optimum result**

**Refrigeration process with SHUT UP®****Attention:**

**Both, SHUT UP® and the suction hood increase the external pressure drop of the installed air cooler fans during the refrigeration process. In practice a DT1 of 12 K {21°F} should not be exceeded.**

**Defrosting process with SHUT UP® and hood**

**During the defrosting process SHUT UP® and the hood produce a positive barrier effect on heat. In any case this barrier effect on heat should be used for the defrosting process. This has to be put into practice by the control system.**



By request you get wiring diagrams for controlling within time- and temperature. The ideal addition to SHUT UP® and hood in any case is our self adapting controller.

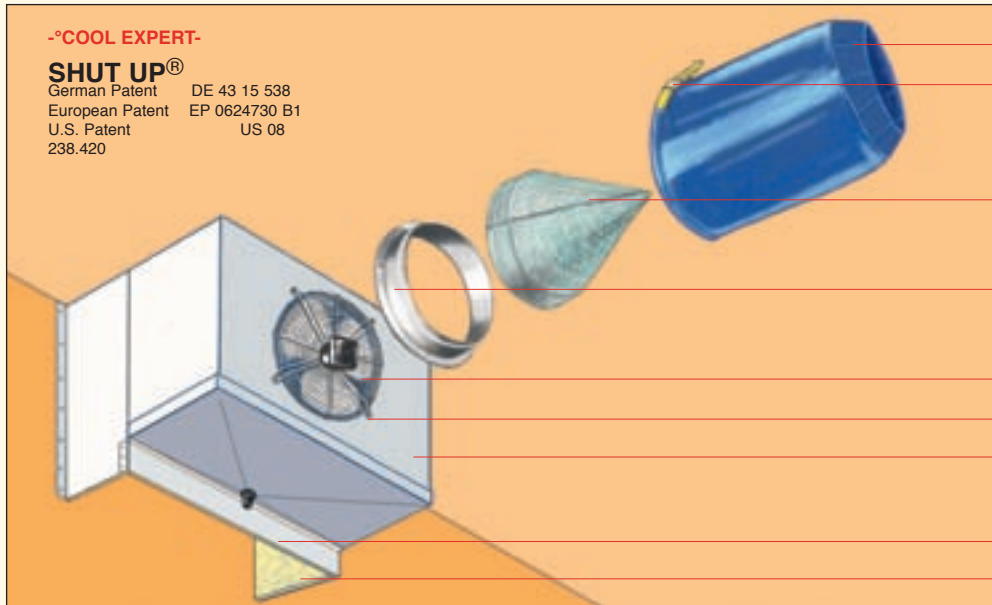
**The self adapting controller is able to decide on demand:**

- the defrosting start
- the control of the heat medium
- the positive barrier effect on heat
- the defrosting end as well as a draining time
- the air cooler fan start
- the control of the room temperature
- at the same time it is a cold room monitoring system.

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**SHUT UP®**

German Patent DE 43 15 538  
 European Patent EP 0624730 B1  
 U.S. Patent US 08  
 238.420

**SHUT UP® with tension belt**

**Tension lock**  
 (fixed in a 12'o clock position)

**Textile airguide**  
 (Option)

**Textile airguide connection piece (Adapter) \***

**Cooler fan**

**Fan guard**

**Cooler casing**

**Suction hood\***

(Insulation with polystyrene)

\* mounted by cooler manufacturer or by installer

## Extent of supply

**SHUT UP® including tension belt;**  
**option with textile airguide sew inside SHUT UP®.**

## SHUT UP® sizes

∅ Air inlet = ∅ Textile airguide connection  
 ∅ Air outlet = ∅ Textile airguide connection > -20%  
 Length = ∅ Textile airguide connection X 1,2

## SHUT UP® tension belt sizes

Length: Width of textile airguide + 300 mm {11 13/16 in}  
 Width: 25 mm {1 in}  
 Thickness: 1 mm {1/25 in}  
 Tensile strength: > 500 N/cm<sup>2</sup> {>7,7•10<sup>-6</sup>psi}  
 Lock: Alu/stainless steel

## SHUT UP® assembly description

For mounting SHUT UP® it is useful to insert the textile airguide connection\* piece.

### Attention Safety regulations

Prior to and during SHUT UP® assembly, switch off the electrical connection of the cooler fans and ensure, that this cannot be accidentally powered on. In case of disregard there is a danger to life.

The textile airguide connection piece must be fixed air-tight to the cooler fan plate. No air should be permitted to exhaust between the fan tin plate and textile airguide connection, during the defrosting and refrigeration process.

SHUT UP® should be used only in connection with the airguide. Without using the airguide, the textile SHUT UP® will be destroyed. The textile airguides we supply, are well tested in practice. If necessary, these airguides will be stitched in ex factory and must be ordered with SHUT UP®.

Please contact our technical assistant for further information.

### During defrosting and refrigeration process:

SHUT UP® should not get in touch with controllers, cross bracings, rods or lamps. Rods and lamps should not be mounted at right angles to the airflow.

## SHUT UP® technical data

High Tech	water repellant, steam tight
Micro fibre:	resistant to tearing, extremely flexible, UV-resistant, distortion resistant, temperature tolerant, uncorrodible, approved by food sector.
Hygien:	approved by food sector.
Colour:	blue
Appearance:	cylinder/conical
Temperature range:	-50°C to +70°C { -58°F to 158°F }
Textile strength:	> 50 N/cm <sup>2</sup> { >7,7•10 <sup>-7</sup> psi }
Material strength:	0,125 mm (tol. +/-0,025 mm) { 1/200 +/- 1/1000 in }
Tensity:	1,8 m water column { 70 13/16 in water column }
Weight:	ca. 0,1 kg/m <sup>2</sup> { 1,43•10 <sup>-4</sup> lb/in <sup>2</sup> }

Cleaning instructions: Polyester / Polyamid

Even ventilator ring heaters have to be removed before fixing the SHUT UP® textile.

When using SHUT UP®, fan ring heaters are generally unnecessary. If necessary, only use fan ring heaters such as self restricting heating straps with surface temperatures of max. 70°C. {158°F}

The textile airguide connection has to be free of sharp edges which could damage the textile SHUT UP®. When necessary place an armaflex tape or similar on the textile airguide connection before assembly.

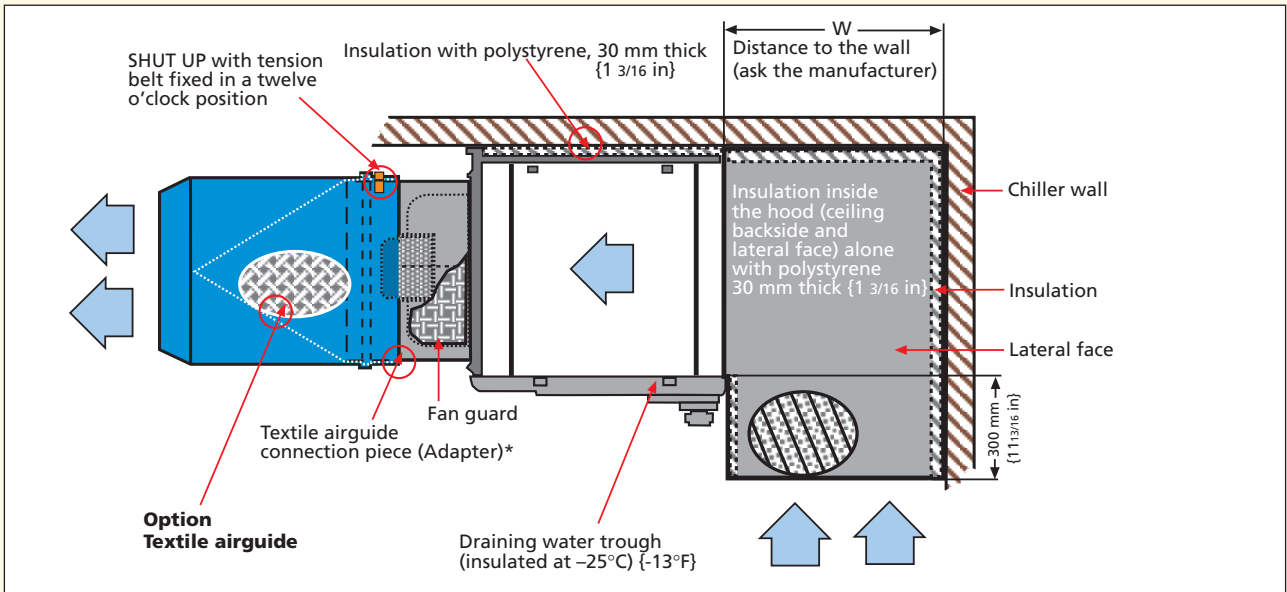
For avoiding ice on the airguide connection seam, it has to be mounted in a twelve o'clock position. The textile airguide connection piece must be 10 mm {3/8 in} longer than the fan motor and fan guard. This is absolutely necessary in deepfreezing applications.

After the assembly the seams of the textile SHUT UP® have to be visible with the rough side showing, so water drops are not able to freeze.

The SHUT UP® stick lock for cable tightening (ventilator connection cable) has to be mounted in a twelve o'clock position during the assembly. Strap SHUT UP® with the bigger hole (tension belt side) over the textile airguide connection. SHUT UP® should be mounted equally, then pull the tension belt tight. In case of working ventilators SHUT UP® must be blown up straight and without wrinkles.

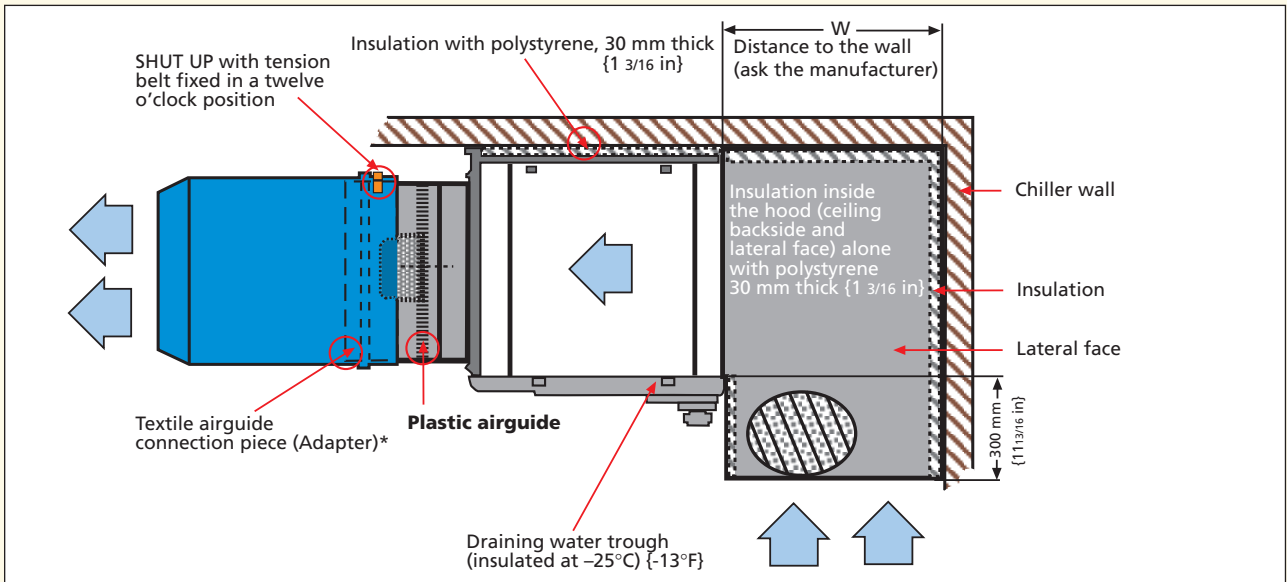
# Mounting advice for SHUT UP® + hood (lateral faces)

Description with textile airguide



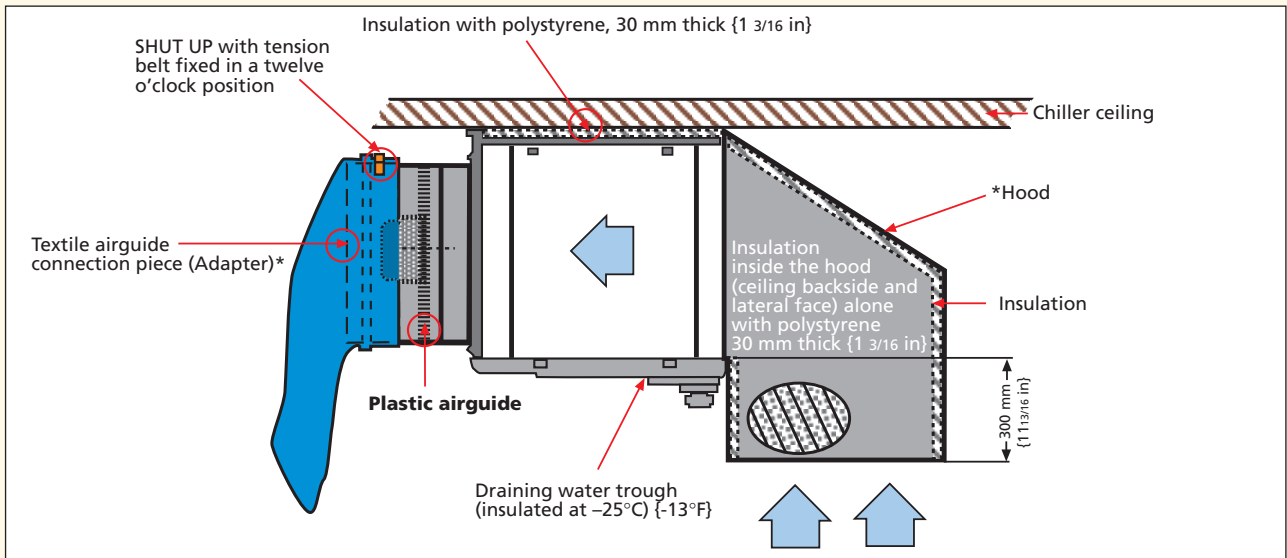
# Mounting advice for SHUT UP® + hood (lateral faces)

Description with plastic airguide



# Mounting advice for SHUT UP® + separate hood\*

Description with plastic airguide



\* mounted by cooler manufacturer or by installer