

- Variable airflow-adjustment
- Condensation protected
- Distribution pattern for floor-heating
- Built-in minimum-flow
- Several filter-alternatives

## Fresh TL-F

A flexible air vent for wall mounting designed to provide a continuous airflow into the house.

TL-F is also available in sound reduced models.



TL98F



TL80F-dBS



TL98F-dB

Specification		
Product	Description	Art no
TL80F	Complete wall vent with wall pipe Ø81/85 mm and external grille	628040
TL98F	Complete wall vent with wall pipe Ø98/102 mm and external grille	629840
TL-F	Internal part without adapter	249820
TL80F-dB	Complete sound reducing vent, wall pipe Ø81/140 x 400 mm	638040
TL80F-dBS	Complete sound reducing vent, wall pipe Ø81/124 x 400 mm	638050
TL98F-dB	Complete sound reducing vent, wall pipe Ø98/140 x 400 mm	639840

The vent can easily be adjusted to suit special requests (larger coverplates, other dB-pipe lengths etc.)

Technical facts	
Capacity:	8,1 l/s for Ø98-vents and 7,8 l/s for Ø80-vents at 10 Pa
Hole opening:	Ø86, Ø105, Ø125 or Ø150 mm depending on model
Material:	ABS plastic (recyclable)
Colour:	White, NCS S0502-Y

# FRESH TL-F

Air supply vent

## Description/function

TL-F is a wall vent with a very comfortable distribution pattern, mainly designed for floor-heating. The internal part is delivered with a replaceable dust & insect filter. The airflow is adjusted by a regulator which is hidden underneath the front cover. TL-F is available in several different sound-reducing models.

## Standard

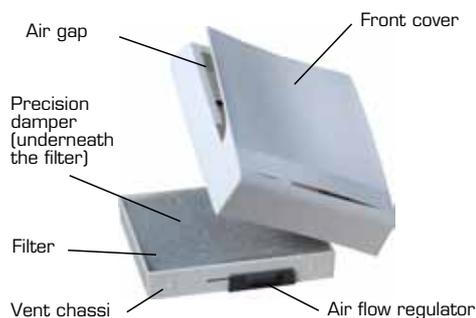
TL-F is a supply air vent for wall mounting. A complete set contain internal part, adapters, wall pipes and external grille. The wall pipes are available in different lengths and fit telescopically which gives a flexible joint. The internal vent and external grille fit onto the adapters with snap-in closure.

## Internal part

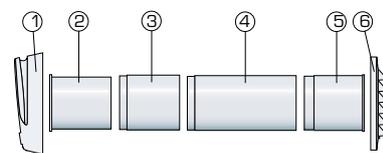
The internal part has a condensation-protected design, filter and a variable precision damper for infinitely adjustment of the airflow. The regulator is hidden underneath the front cover. The distribution pattern is especially developed to suit floor heating, the vent distributes the air both upwards and sideways. The incoming air is efficiently mixed with the convection flow. Cold incoming air reaches a comfortable temperature even only a decimetre from the vent.

## Sound-reduced model

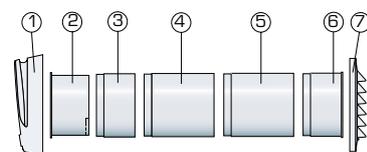
The sound-reduced model has another wall pipe than the standard vent. Besides the dB-pipe the set also contain two cover plates and two short adapters. The sound-reduced wall pipe has a standard length of 400mm. The pipe can easily be cut to requested length.



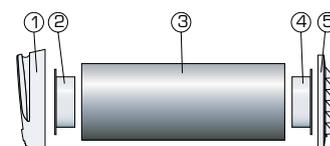
TL80F		
Pos.	Description (mm)	Art no
1	TL-F internal part	249820
2	Adapter 8 int. Ø81 x 90	660890
3	Wall pipe Ø81/85 x 75	660875
4	Wall pipe Ø81/85 x 150	800150
5	Adapter 8 ext. Ø81/85x90	660892
6	External grille #150 mm	801701



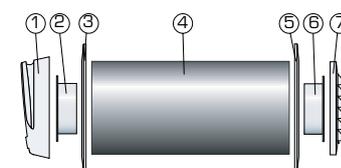
TL98F		
Pos.	Description (mm)	Art no
1	TL-F internal part	249820
2	Adapter 10 int. with rainstop Ø98 x 60	661061
3	Wall pipe Ø98/102 x 50	661050
4	Wall pipe Ø98/102 x 100	188009
5	Wall pipe Ø98/102 x 100	188009
6	Adapter 10 ext. Ø102 x 60	661063
7	External grille #150 mm	801701



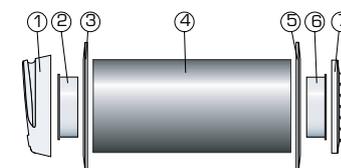
TL80F-dBS		
Pos.	Description (mm)	Art no
1	TL-F internal part	249820
2	Adapter 8 int. short Ø81x30	660830
3	dB-S pipe Ø80/124, L=400mm	668003
4	Adapter 8 int. short Ø81x30	660830
5	External grille #150 mm	801701



TL80F-dB		
Pos.	Description (mm)	Art no
1	TL-F internal part	249820
2	Adapter 8 int. short Ø81x30	660830
3	Cover plate #180 mm	661801
4	dB-pipe Ø81/140, L=400mm	806004
5	Cover plate #180 mm	661801
6	Adapter 8 int. short Ø81x30	660830
7	External grille #150 mm	801701



TL98F-dB		
Pos.	Description (mm)	Art no
1	TL-F internal part	249820
2	Adapter 10 int. short Ø98 x 30	661030
3	Cover plate #180 mm	661801
4	dB-pipe Ø98/140, L=400mm	855004
5	Cover plate #180 mm	661801
6	Adapter 10 int. short Ø98 x 30	661030
7	External grille #150 mm	801701



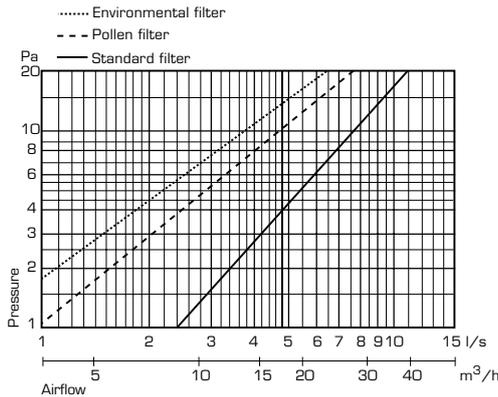
## Mounting

A high placing on the wall is recommended.

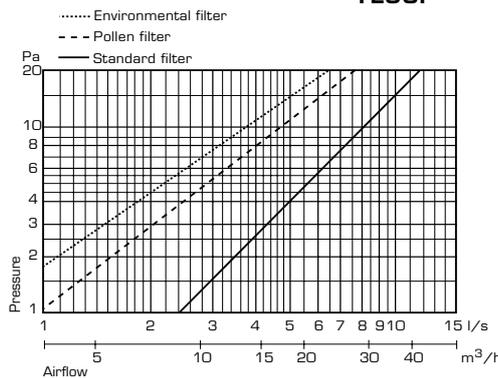
The vent can with advantage be used in rooms with floor heating as it has been designed mainly for this solution.

If there is a radiator in the room the vent should be placed above it. With this solution the convection flow is used and maximum comfort is achieved.

### TL80F

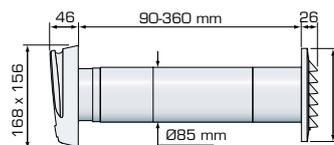


### TL98F

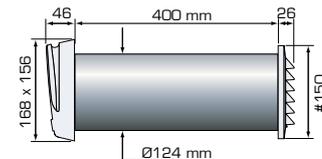


Technical data TL-F vents	
Capacity TL80F at 10 Pa:	7,8 l/s
Capacity TL98F at 10 Pa:	8,1 l/s
Wall opening TL80F:	Ø86 mm
Wall opening TL98F:	Ø105 mm
Wall opening TL80F-dBS:	Ø125 mm
Wall opening TL80F-dB, TL98F-dB:	Ø150 mm
Max. wall thickness TL80F:	360 mm
Max. wall thickness TL98F:	350 mm
Additional pipes can be used for thicker walls.	
Max. wall thickness dB-models:	400 mm
For thicker walls please contact Fresh AB.	
Material:	ABS-plastic (recyclable)
Colour:	White, NCS S0502-Y

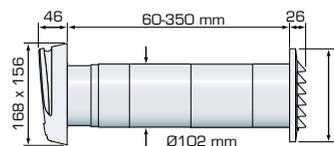
### Measurement TL80F



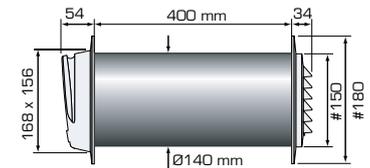
### Measurement TL80F-dBS



### Measurement TL98F



### Measurement TL80F-dB, TL98F-dB



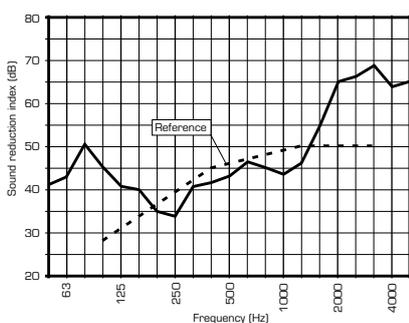
Cover plates #180

## Sounddata

The diagrams show sound reduction with fully open vent and 300mm wall.

The test has been made according to ISO 140-10. Normalized level diff. for building section, calculating on 10 m<sup>2</sup>.

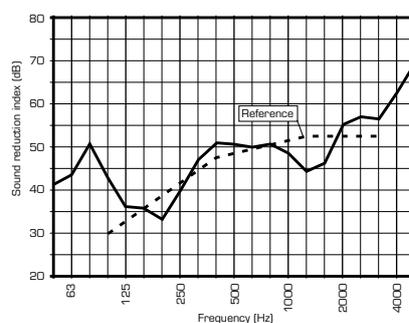
### TL80F-dBS



$D_{n,e,w}$  46 dB  
 $D_{n,e,w,8}$  46 dB

(C:Ctr) (0;-3) Sum. Dev. 25,6  
 50-3150 (0;-3) Max Dev. 5,8  
 50-5000 (1;-3) Frequency 1000

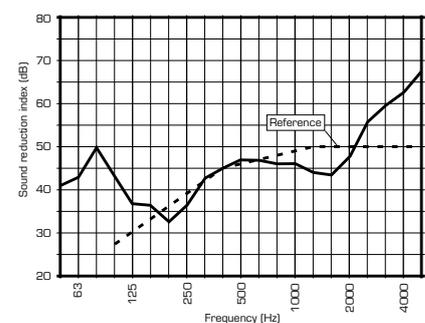
### TL80F-dB



$D_{n,e,w}$  49 dB  
 $D_{n,e,w,8}$  49 dB

(C:Ctr) (-2;-5) Sum Dev. 27,9  
 50-3150 (-2;-5) Max Dev. 8,8  
 50-5000 (-1;-5) Frequency 1250

### TL98F-dB



$D_{n,e,w}$  46 dB  
 $D_{n,e,w,8}$  46 dB

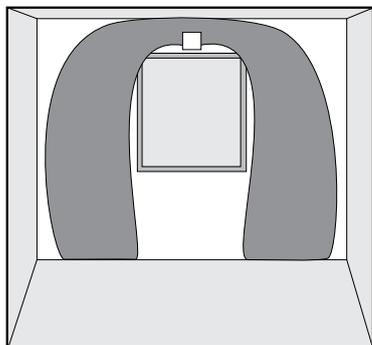
(C:Ctr) (-1;-3) Sum Dev. 27,9  
 50-3150 (-1;-3) Max Dev. 6,9  
 50-5000 (0;-3) Frequency 1600

# FRESH TL-F

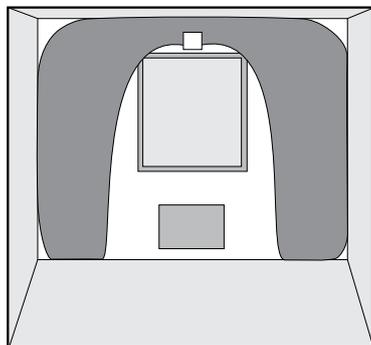
Air supply vent

## Distribution pattern

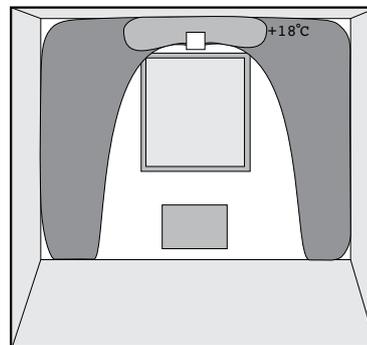
As shown in the diagrams below TL-F can handle up to 8 l/s at -20°C without any draught problems. The shaded areas indicates air movements above 0.15 m/s.



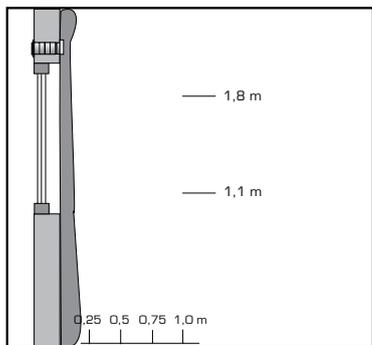
**Floor heating, frontside**  
Airflow 8 l/s, indoor temp +19°C  
Power 0 W/m<sup>2</sup>, outdoor temp -20°C



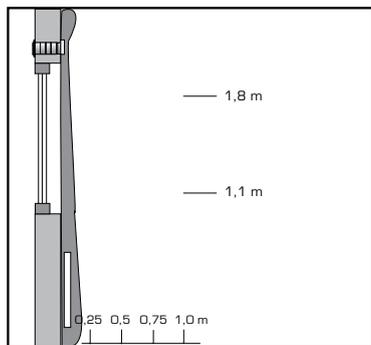
Airflow 8 l/s, indoor temp +21°C  
Power 500 W, outdoor temp -20°C



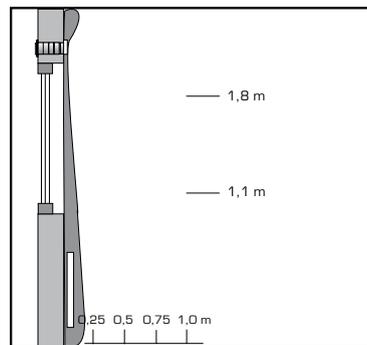
**Radiator heating, frontside**  
Airflow 6 l/s, indoor temp +19°C  
Power 1000 W, outdoor temp -20°C



**Floor heating, sideways**  
Airflow 8 l/s, indoor temp +19°C  
Power 0 W/m<sup>2</sup>, outdoor temp -20°C



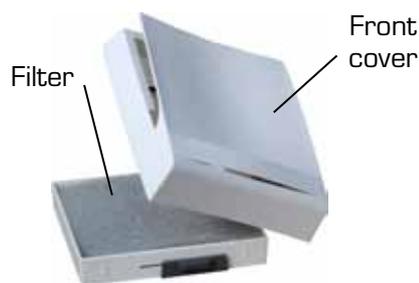
**Radiator heating, sideways**  
Airflow 8 l/s, indoor temp +21°C  
Power 500 W, outdoor temp -20°C



**Radiator heating, sideways**  
Airflow 8 l/s, indoor temp +19°C  
Power 1000 W, outdoor temp -20°C

## Maintenance

In order to ensure correct airflow and to retain good air quality it is important to keep the filter clean. We recommend to wash/replace the filter 1-2 times/year. The Standard filter is washable, use a gentle detergent. The Pollen filter should be replaced with a new one. The filter is mounted behind the front cover, it is easily removed by pulling the vent chassis straight outwards.



## Accessories

TL-F has a large range of accessories for further flexibility.



Wall pipes, available in different dimensions and lengths.



Cover plates, available in different sizes



Storm shield, protects against heavy winds and water penetration.



Filters, Standard filter and Allergy filter.



Rain-shield, designed for weather-exposed areas.



External grilles, available in different sizes and colours.