



<b>SE</b>	<b>Manual AW DX för inomhusdel till värmepump.</b>	
	<b>VIKTIGT:</b> Läs denna manual innan produkten monteras, ansluts och tas i bruk. Spara manualen för framtida bruk .....	2
<b>FI</b>	<b>Käyttöopas AW DX sisäyksikölle lämpöpumpulle.</b>	
	<b>TÄRKEÄÄ:</b> Lue tämä opas ennen laitteen asennusta, liitintää ja käyttöönottoa. Säilytä opas myöhempää käyttöä varten. ....	8
<b>GB</b>	<b>Manual AW DX for the indoor unit.</b>	
	<b>IMPORTANT:</b> Please read this manual before installation, connection and putting the product into use. Save the manual for future use. ....	14
<b>DE</b>	<b>Handbuch AW DX für Inneneinheit.</b>	
	<b>WICHTIG:</b> Lesen Sie die Betriebsanleitung, bevor Sie das Gerät montieren, anschliessen und in Betrieb nehmen. Bewahren Sie die Betriebsanleitung für den zukünftigen Betrieb auf.....	20

(GB)

## Use

This appliance may be used by children aged eight years or above, people with physical and/or mental disabilities as well as those who lack any experience – provided that they have received detailed instructions of the appliance's functions and any risks. Children must not play with the appliance. Cleaning and maintenance must not be performed by children without proper supervision. Children under three years of age should not be near the appliance without constant supervision. Children between three and eight years old may only turn on/shut off the appliance if it is located in a suitable position and they have received instructions about the proper course of action, or are being supervised. They must also be informed of possible dangers. Children between three and eight years old may not connect the device, change its settings or perform care/maintenance.

**WARNING** - Parts of this appliance can get hot and cause burns. Children and vulnerable people must be kept under supervision.

### **Danger of Electric Shock.**

If this warning is not observed it can lead to injury or death. Before carrying out maintenance on the unit it is important to always turn the main switch off and lock it in the off position. The unit may have more than one power switch.

### **Reduce the risk of injury!**

If this safety instruction is not observed it can lead to injury. Sheet metal edges may be sharp or have burrs. Use suitable protective clothing, safety glasses and protective gloves when handling, cleaning and carrying out maintenance of this product.

## AW DX

The indoor unit for heat pump is available in two sizes: AW DX22 and AW DX42. The AW DX can be used with an outdoor unit to heat and cool different premises such as warehouses, shops, and commercial facilities. It can also be used well in dusty environments. AW DX has the protection class IP44. For the technical data of the indoor unit AW DX, see Appendix A.

## Design

The AW DX is supplied in galvanised white painted sheet steel with cooling and heating functions. Maintenance even in dusty places is minimised thanks to the coil element with copper pipes and aluminium fins with a 4 mm pitch. The aluminium fins have a hydrophilic coating to ensure optimum water repellent at cooling operation.

## Control

The AW DX does not have its own controller, but is controlled by the external element and its control device.

## Dimensioning of external element and heat pump convector/internal element

When combining the outdoor unit with the indoor unit AW DX, it is important that the internal volume of the AW DX coil meets the recommendations of the outdoor unit manufacturer for best and safe operation.

It is also possible to connect several indoor units to one outdoor unit.

In doing so, it is necessary to proceed in accordance with the instructions of the outdoor unit manufacturer.

## Accessories

As AW DX accessories, there are air deflectors with blades made of aluminium, which directs the air to the sides. The name of the air deflectors is AWLH DX22/K22 resp. AWLH DX42/K42.

## Installation

The refrigerant element must be installed by a certified refrigeration technician.

The electrical installation must be carried out by a qualified electrician.

The indoor unit must be installed at least 850 mm above the floor so that infants cannot reach the moving parts of the fan motor.

## INSTALLING THE WALL BRACKET

1. Loosen the eight screws; see arrow markings in Fig 1.

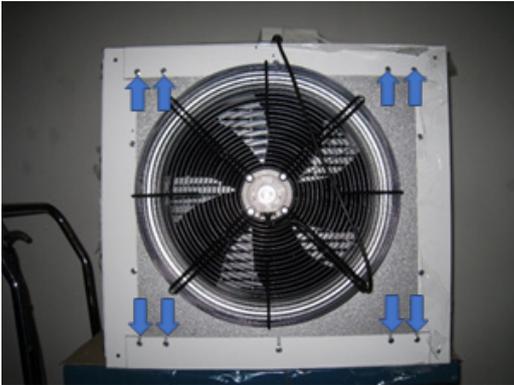


Fig. 1



Fig. 2

2. Install the wall brackets with the hole facing the fan; see marking in Fig 2. This hole is for a cable tie for the cable of the fan motor.

3. When installing the indoor unit, the transport locks of the pipe connections on the left side must not be removed.

Make sure that the indoor unit is horizontal both in width and in depth; see the arrows in Fig. 3.



Fig. 3



Fig. 4

4. Use a 1/4" bit screwdriver to loosen the four screws securing the transport lock, see Fig. 4.

Remove the transport lock, and then reinstall the screws. Pull off the entire protective film from the white painted sheets.

## CONNECTING TO THE OUTDOOR UNIT

1. The 3/8" copper pipe for the liquid connector of the coil element is marked in Fig. 5 with a yellow arrow.

AW DX42 has a 1/4" flare coupling, but this must not be used. Cut it off and solder the liquid connector.

The gas connector is a 5/8" copper pipe marked with a red arrow.

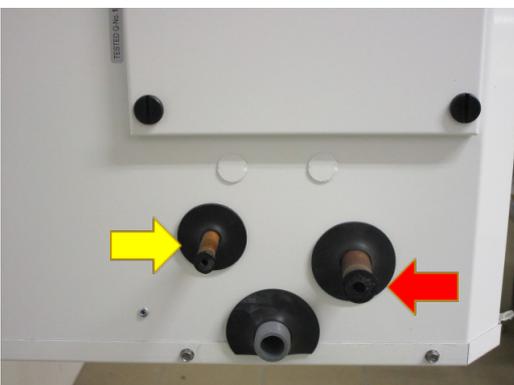


Fig. 5



Fig. 6

2. NOTE! The coil comes pressurised with dry air. Carefully remove the rubber plugs on the coil connection pipe, see figure 6.

Use nitrogen inside the copper tube to avoid oxidation, during soldering.

3. Pull off the rubber seal from the connection pipe and protect the sheet against discolouration with a flame retardant, see Fig. 7.  
Attention! Make sure the nitrogen can freely exit so that no overpressure occurs during soldering.



Fig. 7



Fig. 8

4. The sensor for the liquid pipe is installed outside the internal element frame, see Fig. 8.  
Use contact paste and straps with metal locking, insulate with insulating tape.

5. Attach the supplied straps in the hole on the inside of the wall bracket where the fan motor cable is routed, see Fig. 9.



Fig. 9



Fig. 10

6. Fix the motor cable with the straps, see Fig. 10. Then install the control box on the wall.

7. If the control equipment of the outdoor unit is equipped with a separate room sensor, it can be fixed with a smaller cable tie on the inside of the bracket, see Figs. 11 and 12.



Fig. 11



Fig. 12

8. The condensate drain has a G1/2" connection, see Fig. 13. If the drain is connected to the floor drain with a hose, no water seal is required. If the condensate drain is connected directly to the drainage system, a water seal must be used to prevent the escape of bad odours.



Fig. 13



Fig. 14

9. The air deflector can be turned by 180° in case the indoor unit is positioned low (at least 850 mm above the floor) or if the air is to be directed upwards. Loosen the eight screws with a 1/4" hexagon head and turn the air deflector, see Fig. 14.

10. The indoor unit is connected via the control box to 230VAC, see Fig. 15.

To minimise contamination of the heater, the fan should be stopped when there is no need for heating or cooling.



Fig. 15



Fig. 16

## ACCESSORY

An air deflector is available as an accessory for the AW DX, which directs the air to the sides, see Fig. 16. It is screwed into the of the top and bottom plates with self drilling screws.

## MAINTENANCE/CLEANING

 Before starting maintenance/cleaning, the indoor unit must be de-energised.  
Maintenance/cleaning must be carried out by a maintenance company or a qualified person.  
Attention! The air distribution plate on the indoor unit must always be installed, otherwise the heat capacity drops significantly. Even with comfort cooling, the capacity decreases, and there is a great risk in the absence of the plate that condensate enters the element with the air.

The coil of the indoor unit has a 4 mm fin pitch, which minimises maintenance. However, it must be cleaned if dust or dirt has accumulated on the fan, the air distribution plates or the coil. Otherwise the efficiency will be impaired. The intervals at which the indoor unit should be cleaned depend on the type of operating environment. Clean the coil more thoroughly if the indoor unit is used for comfort cooling.

1. To clean, open the quick release on the flap, see Fig. 17.



Fig. 17

2. Pull the air distribution plate towards the flap opening and unhook it, see Fig. 18.



Fig. 18

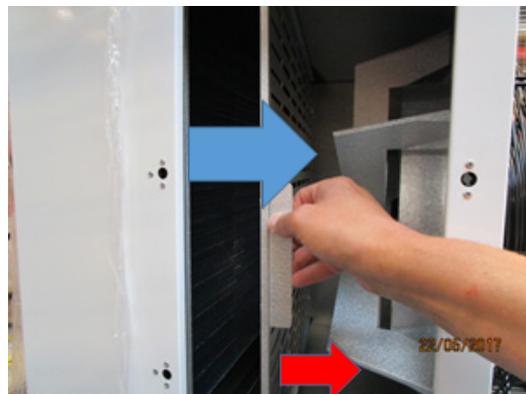


Fig. 19

3. Move the air distribution plate towards the fan motor; see blue arrow in Fig. 19. Release the lower part of the plate and turn it in the direction of the red arrow so that it detaches from the lower holder.

4. Hold the air distribution plate at an angle and take it out, see Fig. 20.  
**Make sure that the coil element is not damaged!**



Fig. 20

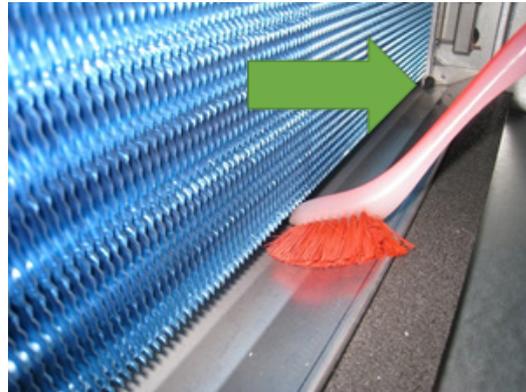


Fig. 21

5. Clean the fan grille, fan motor, fan motor air vents, and coil with a soft brush and a vacuum cleaner.  
Then clean the drain plate (Fig. 21). Make sure that the condensate drain (green arrow) is free from contamination.

6. If the air conditioner is cleaned with cleaning spray, first remove the air deflector or turn the air deflector blade all the way up, see Fig. 22.



Fig. 22

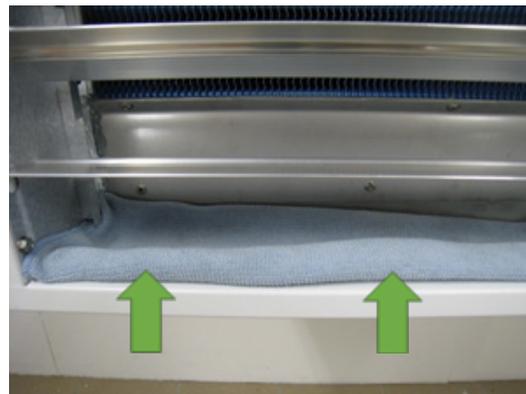


Fig. 23

7. Place liquid-absorbing paper or the like on the bottom plate, which absorbs the cleaning spray and rinsing liquid, see Fig. 23.  
8. Proceed accordingly on the inside, see Fig. 24.

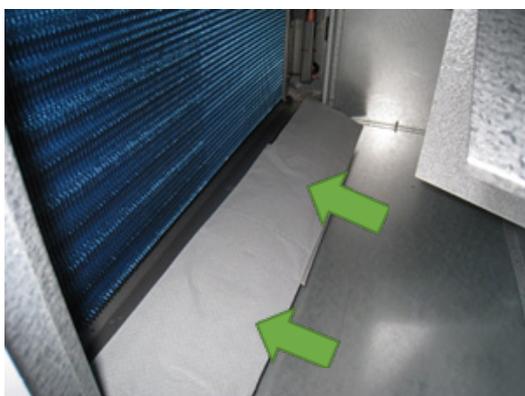


Fig. 24



Fig. 25

9. Apply cleaning spray to the entire coil, see Fig. 25. Follow the instructions on the spray bottle.  
Protect the fan motor from cleaning spray and spray fluid.  
10. After cleaning, reinstall the air distribution plate and cleaning flap.  
Make sure that the air distribution plate is correctly installed and held in the correct position by the springs.

## Tekniset tiedot

Tyyppi		AW DX22	AW DX42
Jännite		230V~	230V~
Virrankulutus	A	0,6	0,95
Ilmamäärä	m <sup>3</sup> /h	2000	3500
Ilmanpainetaso <sup>1)</sup>	dB(A)	52	62
Maks. käyttöpainne	MPa	4,15	4,15
Putkiston sisätilavuus	litra	2,3	3,7
Kylmäputken liitäntä, neste/kaasu	Ø	3/8" - 5/8"	3/8" - 5/8"
Lauhveden poistoputki		G1/2"	G1/2"
Ympäristön maksimilämpötila	°C	40	40
Kylmäaine		R410A	R410A
Kotelointiluokka		IP44	IP44
Paino	kg	48	63

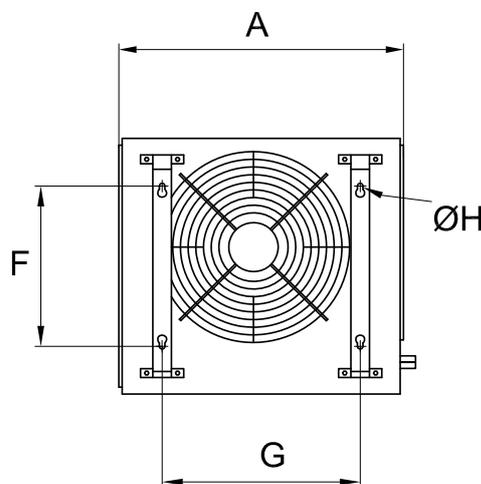
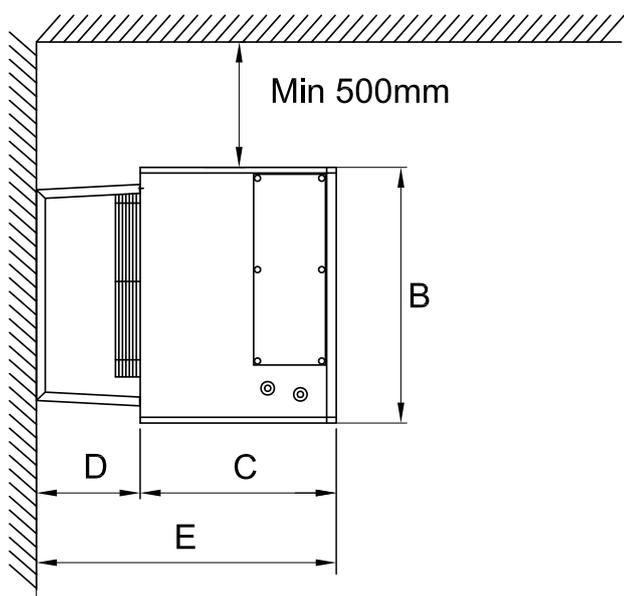
<sup>1)</sup> Mitattu 5 metrin etäisyydeltä AW:n edestä.

## AW DX22/DX42 -mallin teho lämmitys- ja jäähdytystoiminnolla

Ilma, °C	Kondensoitumislämpötila °C	AW DX22:n lämmöntuotto, kW	AW DX42:n lämmöntuotto, kW
15	45	11,1	19,2
20	45	9	15,8

Ilma, °C	Höyrystyslämpötila °C	AW DX22:n jäähdytysteho, kW	AW DX42:n jäähdytysteho, kW
27 °C DB/19 °C WB	5	9,2	16,1

Mitat	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Ø H mm
AW DX22	740	670	510	270	780	420	515	10
AW DX42	920	875	510	270	780	550	700	10



## GB Appendix A

### Technical data

Type		AW DX22	AW DX42
Power supply		230 V	230 V
Current max.	A	0.6	0.95
Air volume	m <sup>3</sup> /h	2000	3500
Sound pressure level <sup>1)</sup>	dB(A)	52	62
Max. operating pressure	MPa	4.15	4.15
Inner volume coil	liter	2.3	3.7
Pipe connection coil, liquid/gas	∅	3/8" - 5/8"	3/8" - 5/8"
Condensation drain		G1/2"	G1/2"
Max. ambient temperature	°C	40	40
Refrigerant		R410A	R410A
Protection class		IP44	IP44
Weight	kg	48	63

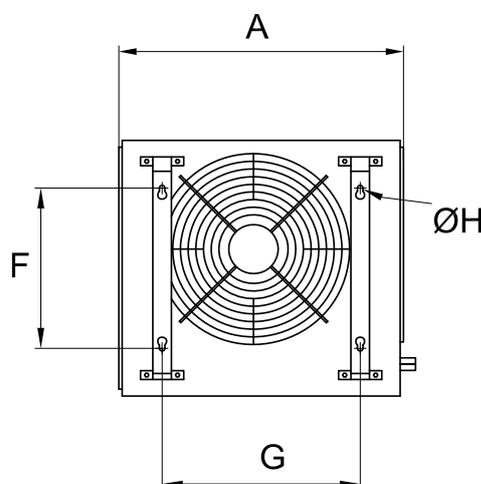
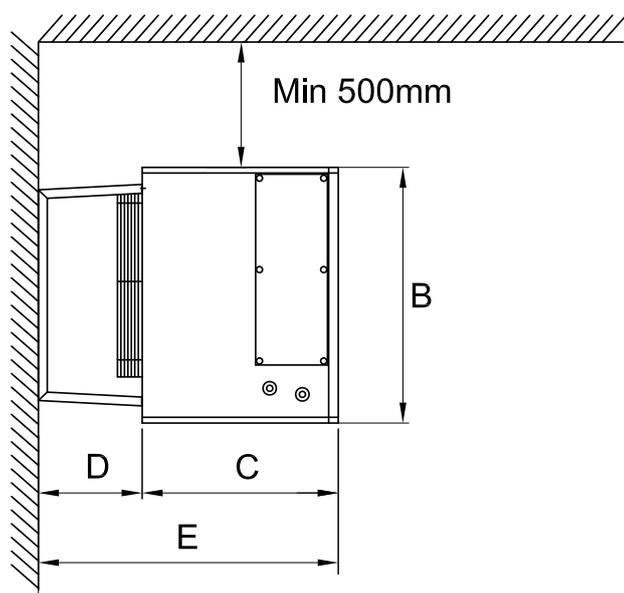
<sup>1)</sup> Measured 5 metres in front of AW unit.

### Capacity AW DX22/DX42, heating and cooling

Air in °C	Condensation temp °C	AW DX22 heating output kW	AW DX42 heating output kW
15	45	11.1	19.2
20	45	9	15.8

Air in °C	Evaporation temp. °C	AW DX22 cooling output kW	AW DX42 cooling output kW
27 °C DB/19 °C WB	5	9.2	16.1

Dimensions	A mm	B mm	C mm	D mm	E mm	F mm	G mm	∅ H mm
AW DX22	740	670	510	270	780	420	515	10
AW DX42	920	875	510	270	780	550	700	10



### Technische Daten

Typ		AW DX22	AW DX42
Spannung		230 V~	230 V~
Stromverbrauch	A	0,6	0,95
Luftmenge	m <sup>3</sup> /h	2000	3500
Schalldruckpegel <sup>1)</sup>	dB(A)	52	62
Max. Betriebsdruck	MPa	4,15	4,15
Innenvolumen Coilelement	Liter	2,3	3,7
Rohranschluss Kühlrohr, Flüssigkeit/Gas	Ø	3/8" - 5/8"	3/8" - 5/8"
Kondenswasserablauf		G1/2"	G1/2"
Max. Umgebungstemperatur	°C	40	40
Kältemittel		R410A	R410A
Schutzart		IP44	IP44
Gewicht	kg	48	63

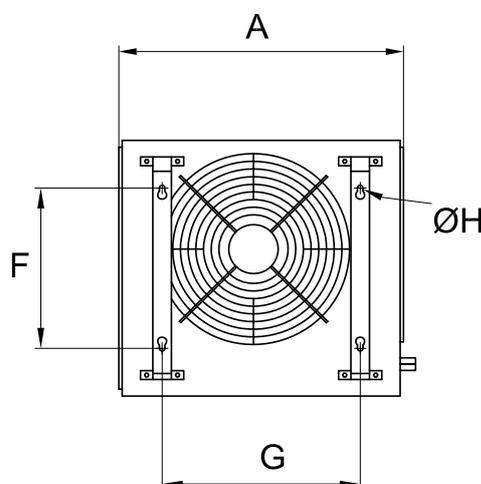
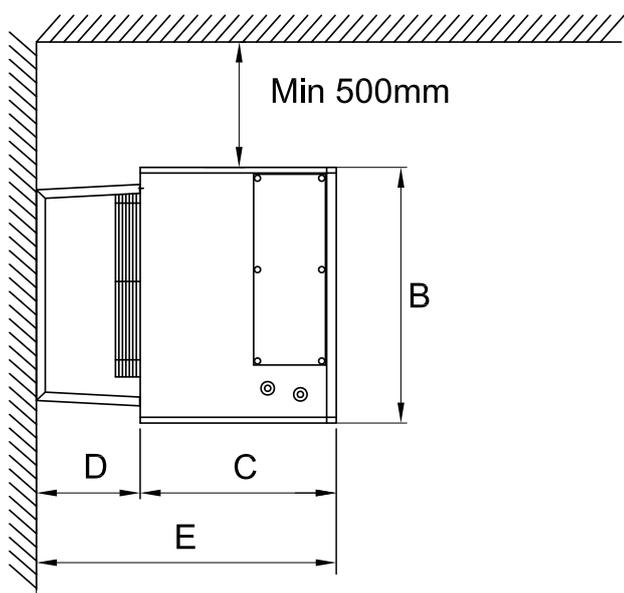
<sup>1)</sup> 5 Meter vor dem AW gemessen.

### Kapazität AW DX22/DX42 beim Heizen und Kühlen

Luft in °C	Kondensierungstemperatur °C	AW DX22 Wärmeleistung kW	AW DX42 Wärmeleistung kW
15	45	11,1	19,2
20	45	9	15,8

Luft in °C	Verdampfungstemperatur °C	AW DX22 Kühlleistung kW	AW DX42 Kühlleistung kW
27 °C DB/19 °C WB	5	9,2	16,1

Maße	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Ø H mm
AW DX22	740	670	510	270	780	420	515	10
AW DX42	920	875	510	270	780	550	700	10



NB: We reserve us from typographical errors and the right to make changes and improvements to the contents of this manual without prior notice.

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