

NEW



ZEPHYR DX

**Air curtain for any
heatpump system
Heating and Cooling**



CE

TEKADOR[®]

Type ZEPHYR DX

ZEPHYR DX lengths



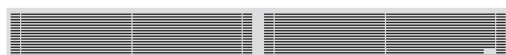
1.000 mm



1.500 mm



2.000 mm



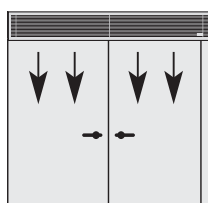
2.500 mm

ZEPHYR DX heights



Zephyr DX

300 mm



ZEPHYR DX Description

The Zephyr DX air curtain from Tekadoor was developed especially for use in combination with an existing heatpump system. Established refrigeration technologies are applied here. The Zephyr DX unit gives the option to blow warm air in winter and cold air in summer, in connection with an external heat pump. The Zephyr DX is equipped with a refrigerant coil and a condensate tray (for up to 2 condensers) as standard. All electrical connections for controlling the unit by the customer are on the terminal block. The air curtain can also be provided with a second refrigerant coil, electric or warm water heat exchanger. This ensures that the Zephyr DX air curtain operates with sufficient heated air even in very cold environments to provide an effective air curtain.


ZEPHYR DX Applications


In addition to the previously described function, the Zephyr DX air curtain can also be used to optimise room temperatures. In winter the warm air produced by the air curtain prevents draughts in the entrance area of a building, because the air flow works as a barrier and keeps the cold air outside.

In summer the Zephyr DX air curtain will provide cooled air and keep the inside of the room comfortably cold. The warm air current in winter and the cold air current in summer avoids air exchange and thereby results in considerable energy savings.


ZEPHYR DX Heating and Cooling

The Zephyr DX air curtain in combination with any heatpump system for all established cooling agents (R410a, R407c) is available in 5 versions:

 **ZEPHYR DX -H** : heating only- no condensate tray, no condensate pump.

 **ZEPHYR DX** : heating and cooling- with condensate tray (condensate pump optional).

 **ZEPHYR DX-DX** : as per Zephyr DX, but with an additional DX condenser.

 **ZEPHYR DX-W** : as per Zephyr DX, but with an additional hot water LPHW heat exchanger for extra heating during low outdoor temperature.

 **ZEPHYR DX-E** : as per Zephyr DX-E, but with additional electrical heat exchanger.

On request Tekadoor air curtains can be supplied with energy saving EC motors. By using these EC motors running costs of air curtains can be reduced by 40% compared with units using conventional motors.

A  ZEPHYR DX just works.

TEKADR[®], comfortably different.



Available as standard in:



RAL 9016
(white)



RAL 9006
(grey)

- NEW**
- Adjustable outlet grille is flush with the unit.
 - Adjustable in 5 positions.

Technical data ZEPHYR DX

Type	Length mm	Air volume m ³ /h	Heat output DX, Cooling agent R410a tLE 20 CkW	Cooling capacity DX, Cooling agent R410a,tLE 27 C,r.F.50% kW	Connections Input & Output pipes mm	Heat output additional LPHW heat exchanger 60/40,kA3/4 IG	Additional electric heat exchanger, heating capacity, 400V/kW	Electric connections			Sound level dB(A)	Weight kg
								Rated output Volt 50Hz	kW	A		

ZEPHYR DX S Recommended installation height 2.2 - 2.7 m

S 1	1000	1200	7,67	6,64	10/16	6,5	9	230	0,37	1,66	53	50
S 1,5	1500	1800	12,30	10,50	10/16	10,0	12	230	0,56	2,49	54	81
S 2	2000	2400	17,05	14,38	10/16	14,1	18	230	0,74	3,32	55	111
S 2,5	2500	3000	21,78	18,29	10/18	18,7	18	230	0,93	4,15	56	140

ZEPHYR DX M Recommended installation height 2.5 - 3.0 m

M 1	1000	1800	9,93	8,77	10/16	9,7	9	230	0,56	2,49	54	52
M 1,5	1500	2700	16,29	13,98	10/16	13,3	12	230	0,74	3,32	55	83
M 2	2000	3600	22,97	19,23	10/18	20,8	18	230	0,93	4,15	56	113
M 2,5	2500	4500	29,37	27,77	10/22	24,1	18	230	1,11	4,98	57	145

ZEPHYR DX L Recommended installation height 2.7 - 3.2 m

L 1	1000	2700	12,47	11,36	10/16	10,8	9	230	0,82	3,57	55	55
L 1,5	1500	3600	19,55	16,92	10/18	18,1	12	230	1,11	4,76	56	85
L 2	2000	5400	29,99	25,17	10/22	26,1	18	230	1,64	7,14	57	115
L 2,5	2500	6300	37,53	30,76	10/22	32,6	18	230	1,92	8,33	58	147

Zephyr DX-H	(standard-heating only)
Zephyr DX	(standard- heating and cooling)
Zephyr DX-DX	(as per Zephyr DX, but with additional DX condenser)
Zephyr DX-W	(as per Zephyr DX, but with additional LPHW heat exchanger)
Zephyr DX-E	(as per Zephyr DX, but with additional electrical heat exchanger)

Subject to technical alterations



Example for an external unit provided by customer

Accessories, optional

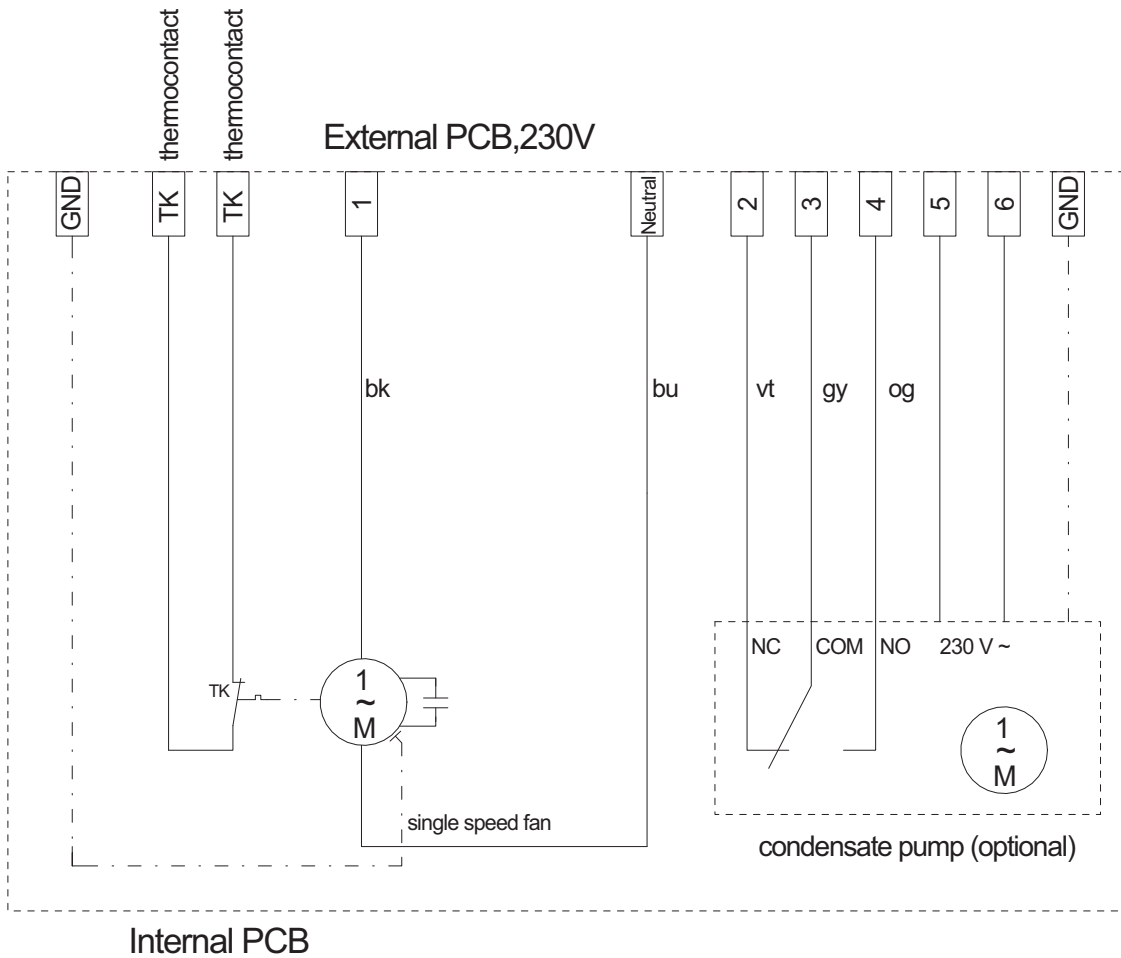


ceiling mounting kit



condensate pump

Wiring diagram ZEPHYR DX



Variable speed control for air curtains

The control contacts of the control unit for variable speeds must be capable of containing the complete motor current.

WARNING!

Only activate one step at the time. Activating 2 or more steps at the time damages the fan motor.

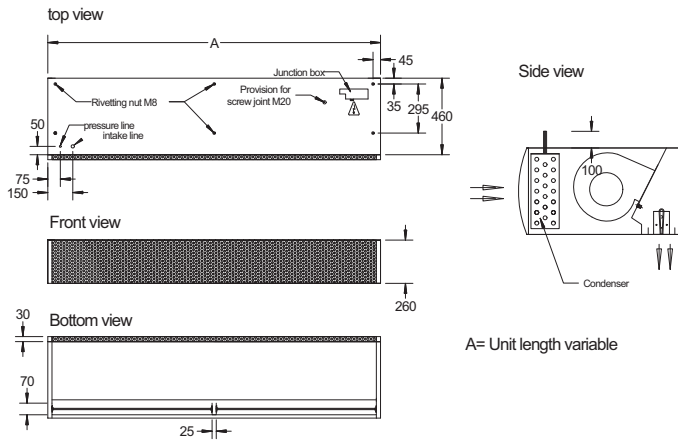
The control unit is managed by the circuit board provided by the customer!

230V voltage has to be applied to any speed level.

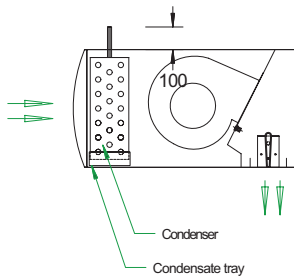
Due to the variety of control options a technical coordination with TEKADOOR is essential.

Subject to technical alterations

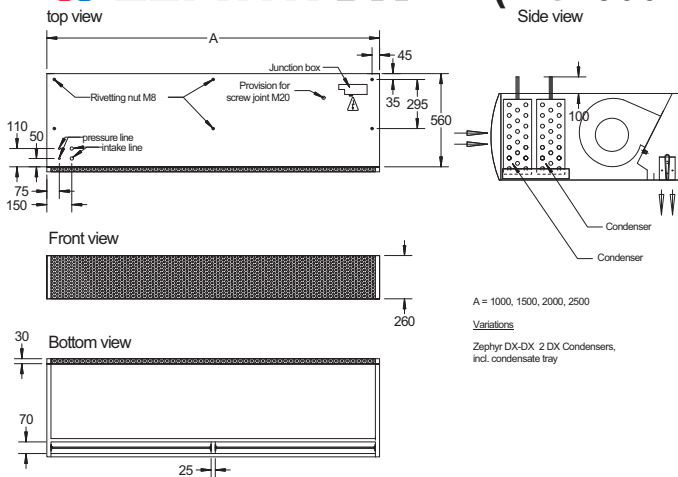
ZEPHYR DX – H (Heating only, no condensate tray, no condensate pump)



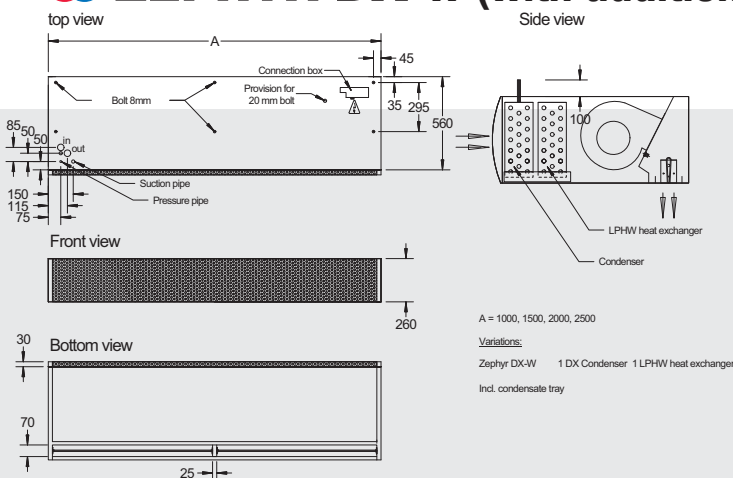
ZEPHYR DX (as per DX-H, but with cooling, with condensate tray and condensate pump)



ZEPHYR DX-DX (with additional DX Condenser)



ZEPHYR DX-W (with additional LPHW heat exchanger)



ZEPHYR DX-E (with additional electrical heat exchanger)

Dimensions- see Zephyr DX-W

Subject to technical alterations



ZEPHYR recessed



COLUM stainless steel



ZEPHYR free hanging



NOUVEAULINE® EC



RONDELL



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