

ACA-DX-HP

- Heatpump (DX)
- Surface mounting



DX Surface Mounted Air Curtain type ACA-DX-HP

The surface-mounted air curtains ACA-DX-HP are equipped with EC fans and are specially designed for connection to Fujitsu inverter heat pumps with direct expansion. The sleek and modern air curtain is designed for use in shops and public areas where users do not want to worry about the air curtain and where maintaining high energy efficiency and comfort levels is required.

The ACA-DX-HP is available in three different capacities for door heights up to 3 m. The 3 lengths can be combined to provide a solution for every door width.

This type of air curtain is equipped with a state of the art bypass system, which creates a pleasant air jet even during the inevitable defrost cycle of the heat pump, without consuming any extra energy.

The air curtain is standard equipped with a wired control that makes it possible to control the ventilation speed in 5 positions and that is equipped with a door contact indication, various LED indicators, an automatic/manual mode and an on/off button for heating. The power supply board is also equipped with a GBS input (potential-free contact) and GBS output (potential-free contact) for external control.

Application

- Hospitals
- Shops
- Office buildings
- Hotel lobbies

Specifications

- Only heating
- Cooling on request
- EC fans

Material

- Steel casing
- Remote control in a PVC casing for surface mounting : dimensions 70x70x26 mm

Colour

- RAL 9016 (traffic white). Other colors available on request

Mounting

- Suited for surface mounting on the ceiling

Accessoires

- Communication module, type **ACA-DX-BOX**
- Door contact
- Connection to GBS by use of an external contact
- Master/Slave control possible with RJ45 cable. Max. 30 m. (to provide on site)

Text for tender

The surface-mounted air curtain has a state of the art bypass system, which creates a pleasant air jet even during the inevitable defrost cycle of the heat pump, without consuming extra energy. Thanks to this system, the air flow during the defrost cycle is not directed through the cold heat exchanger of the air curtain, but through the suction at the top of the air curtain. This temporarily uses the unused heat from the ceiling area to effectively shield the opening. After the heat pump has completed the defrost cycle, the air flow in the air curtain is returned to the heat exchanger.

The fan is controlled by a 5-speed remote control, supplied with the air curtain. This type of air curtain is only suitable for heat pump applications with Fujitsu inverter controlled outdoor units. The housing is painted in steel in RAL 9016, other colors are available on request. Up to 9 air curtains can be controlled in master/slave using an RJ45 cable and a wired control. This air curtain is GBS-ready and standard equipped with an external input contact, a door input contact and an operation and error output contact.

Technical data														
Length	cm	12				18				24				
		100	150	200	250	100	150	200	250	100	150	200	250	
Mounting height (Max.)	m	< 2,30				< 2,60				< 3,00				
Dimensions (HxL)*	mm	330 x 620												
Outlet range		+30°/-30°												
Air flow data of air curtain														
Effective air flow rate	m³/h	1400	1800	2700	3600	1800	2700	3600	4500	2700	3600	5400	6300	
Sound pressure level**	dB (A)	40-54	41-56	41-58	41-60	41-54	43-56	44-58	45-60	40-54	41-56	41-58	41-60	
Weight	kg	49	71	95	115	50	75	100	120	49	71	95	115	
Electrical data of fans														
Power supply (50 Hz)**	V	230/1												
Absorbed power (Max.)	kW	0,42	0,63	0,84	1,05	0,42	0,84	1,05	1,26	0,42	0,63	0,84	1,05	
Absorbed current (Max.)	A	1,7	2,6	3,4	4,3	1,8	3,4	4,3	5,0	1,7	2,6	3,4	4,3	
Power cable section	mm²	3G 2,5												
Automatic fuse (Slow)	A	10												
Technical data of DX battery (H)														
Heating capacity @ 20/35°C***	kW	6,9	9,3	13,4	18,7	9,1	13,4	18,2	22,3	12,2	17,9	27,2	32,3	
Refrigerant		R410A												
Battery diameter	inch	1/2-5/8				1/2-7/8				1/2-7/8				
Technical data of matching Fujitsu outdoor unit														
Type of unit (AOYG/A)		30 LETL	36 LETL	45 LATT	60 LATT	36 LETL	45 LATT	60 LATT	72 LRLA	36 LATT	60 LATT	72 LRLA	90 LRLA	
Type of ACA-DX-BOX		ACA-DX-BOX 30	ACA-DX-BOX 36	ACA-DX-BOX 45	ACA-DX-BOX 60	ACA-DX-BOX 36	ACA-DX-BOX 45	ACA-DX-BOX 60	ACA-DX-BOX 72	ACA-DX-BOX 36	ACA-DX-BOX 60	ACA-DX-BOX 72	-	
Power supply	V	230/1			400/3			230/1			400/3			
Absorbed power (Nom. - Max.)	kW	2,68-3,8	3,1-4,5	3,8-5,8	5,1-7,1	3,1-4,5	3,8-5,8	5,1-7,1	6,2-9,8	2,8-5,1	5,1-7,1	6,2-9,8	8,2-12,1	
Absorbed current (Nom. - Max.)	A	11,7-17	13,6-20	5,5-11	7,6-12,5	13,6-2	5,5-11	7,6-12,5	9,6-22,8	4,4-8,5	7,6-12,5	9,6-22,8	12-25,8	
Dimensions (Height)	mm	830	830	1290	1290	830	1290	1290	1690	1290	1290	1690	1690	
Dimensions (Length)	mm	900	900	900	900	900	900	900	930	900	900	930	930	
Dimensions (Depth)	mm	330	330	330	330	330	330	330	760	330	330	760	760	
Sound pressure level	dB (A)	55	55	54	56	55	54	56	57	53	56	57	59	
Weight	kg	61	61	104	104	61	104	104	215	104	104	215	215	
Cooling pipes ¹	inch	3/8-5/8			1/2-7/8			3/8-5/8				1/2-7/8		
Amount of prefilled refrigerant	g	2100	2100	3450	3450	2100	3450	3450	11200	3450	3450	11200	11200	
Extra amount of refrigerant	g/m	40	40	50	50	40	50	50	110	50	50	110	110	
Number of prefilled meters	m	4	0	2	0	4	9	0	5	17	9	7,5	5	
Maximum length/height of cooling pipes ²	m	40/20	30/30	45/30	40/30	40/30	65/30	50/30	65/30	75/30	65/30	70/30	65/30	
Minimum length of cooling pipes	m	5	5	5	5	5	5	5	5	5	5	5	5	
Cable section between air curtain and outdoor unit	mm²	4G 1,5												
Power cable section	mm²	3G 4	3G 4	5G 2,5	5G 2,5	3G 4	5G 2,5	5G 2,5	5G 4	5G 2,5	5G 2,5	5G 4	5G 4	
Automatic fuse (Slow)	A	25	25	16	16	25	16	16	25	16	16	25	25	
* Specifications and design are subject to change for further improvement without prior notice														
** The sound pressure level is measured at 3m distance of the air curtain's air intake at high speed														
*** Heating capacity at 20°C air intake temperature and 35°C air outlet temperature at a condensation temperature between 43 and 50°C														
° Fan connection on the left side when standing in front of the device														
¹ Always use the same cooling pipes as the outdoor unit														
² Minimum 5m of cooling pipes between the air curtain and the Fujitsu outdoor unit														