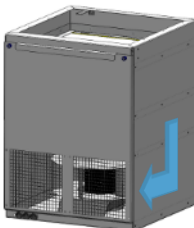




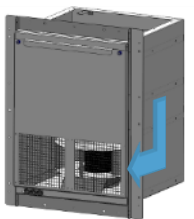
SA (code) = **S**traight **A**ir flow
CA (code) = **C**urved **A**ir flow



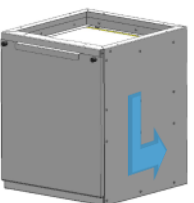
Flexibox 400/48SA
Flexibox 400/230SA



Flexibox 400/48CA
Flexibox 400/230CA



Flexibox 400/48TWCA
Flexibox 400/230TWCA



Flexibox 400/48ODCA
Flexibox 400/230ODCA

FLEXIBOX 400

FREE COOLING FOR ELECTRONICS

Flexibox 400 is a compact free air cooler with flexible air intake, specifically designed to control the internal environment of communications enclosures. The unit is designed to remove excess heat from temperature sensitive electronic equipment, where the temperature is required to be maintained within defined limits to achieve optimum performance and maximise component service life.

The Flexibox is suitable for both new and existing sites, where existing equipment needs replacement or completion with energy savings from free cooling. You can connect the Flexibox to existing air conditioning units, extend the air conditioner's service life and create immense power savings. Ask Dantherm for power savings in your network.

The Flexibox is available for 48 V DC or 230 V AC power supply.

FEATURES AND BENEFITS

Energy efficiency and environment

- Total heat management: designed for energy efficiency with maximum use of controlled ventilation.

Cabinet

- Flexible mounting and air intake
- Versions for indoor, through-wall and outdoor mounting
- Door mounting option; in combination with Air Intake Grille 400x500
- Sheet metal construction (Aluzinc AZ150)
- F5 Compact fine filter

Controller

- ACUE 3000 – 48 VDC Controller, wall mounted (see datasheet)
- TKS3000AEC – 230 VAC Controller, wall mounted (see datasheet)
- Control of up to two cooling units (NB; only one for ACUE 3000)
- Control of external heater
- Control of motorised dampers
- LCD Display with status and alarm functions in clear text
- Timer function for service personnel
- Communication port RS 232, Modbus protocol
- Filter monitor
- Self-test function

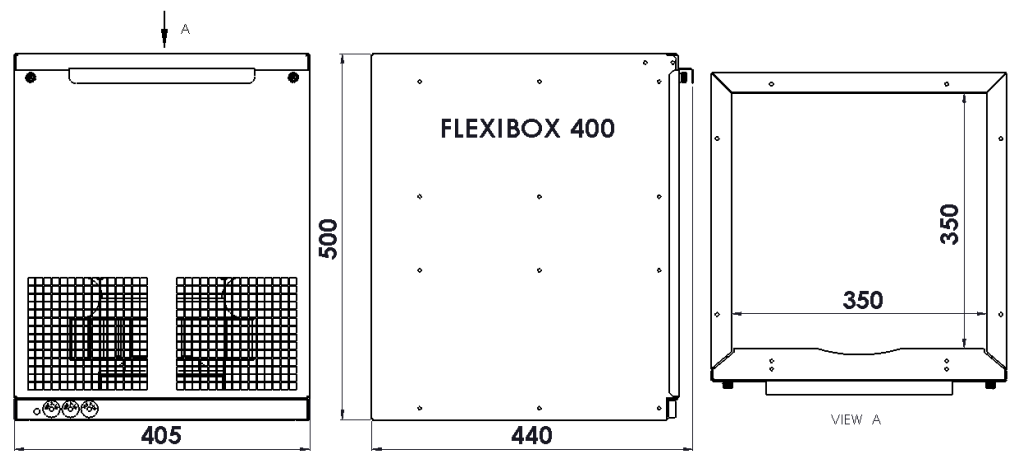
Optional features

- Outdoor temperature sensor for use with air conditioner.

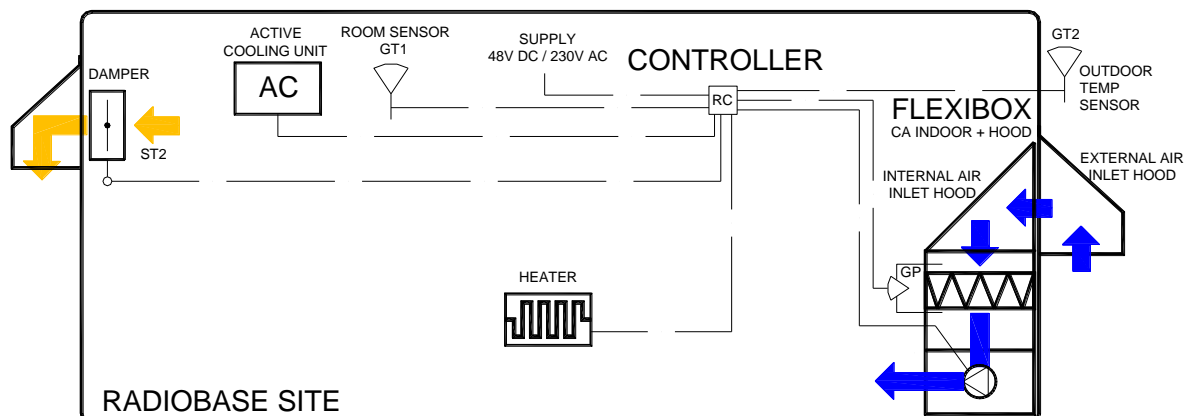
TECHNICAL DATA FLEXIBOX 400

Version	Unit	48V DC (DC-fan)	230V AC (EC-fan)
Fan voltage	AC/DC	48V DC (EC-fan)	230V AC (EC-fan)
Maximum air flow	l/s	400	444
Maximum air flow	m ³ /h	1440	1600
Cooling capacity at $\Delta t=7^{\circ}\text{C}$	kW	3.3	3.7
Cooling capacity at $\Delta t=5^{\circ}\text{C}$	kW	2.4	2.7
Cooling capacity in W / K	W / K	480	533
Fan nominal voltage	AC/DC	48V DC	230V AC
Fan max. current	A	2,8	3.0
Fan max. power consumption at nominal voltage	W	160	215
Fan power consumption at 50% speed	W	40	117
Sound pressure at 5m distance from shelter	dB(A)	50	60
Filter	Class	F5 Compact	F5 Compact
Filter area (Bag filter within parentheses)	m ²	5.7	5.7
Height (Bag filter version within parentheses)	mm	500	500
Width	mm	405	405
Depth	mm	440	440
Weight	Kg	18	18
Intake air cut out dimensions in wall/floor	mm	345x345 (WxH)	345x345 (WxH)
Intake air cut out dimensions (with inlet hood)	mm	350x350 (WxH)	350x350 (WxH)
Intake air cut out dimensions (with duct Ø315)	mm	Ø320	Ø320



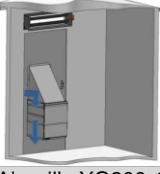







DIMENSIONS



FLOW CHART - CA



MOUNTING ALTERNATIVES

	External air inlet hood Internal air inlet hood Flexibox SA /230 or 48 Motorised exhaust air damper Exhaust air rain hood	299653 299708 Straight air flow 074608 (230V AC motor) 074609 (24/48V DC motor) 299942		External air inlet hood Flexibox SA /230 or 48 Motorised exhaust air damper Exhaust air rain hood	299653 Straight air flow 074608 (230V AC motor) 074609 (24/48V DC motor) 299942
	Air grille YG300x300 Internal air inlet hood Flexibox SA /230 or 48 Motorised exhaust air damper Exhaust air rain hood	299946 299708 Straight air flow 074608 (230V AC motor) 074609 (24/48V DC motor) 299942		External air inlet hood Internal air inlet hood Flexibox CA /230 or 48 Motorised exhaust air damper Exhaust air rain hood	299653 299708 Curved air flow 074608 (230V AC motor) 074609 (24/48V DC motor) 299942
	Air inlet net 10x10mm Flexibox CA /230 or 48 Motorised exhaust air damper Exhaust air rain hood	299717 Curved air flow 074608 (230V AC motor) 074609 (24/48V DC motor) 299942		External air inlet hood Mounting brackets Flexibox CA /230 or 48 Motorised exhaust air damper Exhaust air rain hood	299653 2 x 299650 Curved air flow 074608 (230V AC motor) 074609 (24/48V DC motor) 299942
	Rain hood for Flexibox TW wall Flexibox TWCA/ 230 or 48 Motorised exhaust air damper Exhaust air rain hood Rain hood for Flexibox TW	299724 Curved air flow 074608 (230V AC motor) 074609 (24/48V DC motor) 299942 299724		Rain hood for Flexibox OD Flexibox ODCA/ 230 or 48 Motorised exhaust air damper Exhaust air rain hood Rain hood for Flexibox OD	299651 Curved air flow 074608 (230V AC motor) 074609 (24/48V DC motor) 299942 299651
	Air grille YG300x300 Duct connection Ø315 Duct connection Ø315 for mounting on inlet hood Internal air inlet hood Flexibox SA /230 or 48 Motorised exhaust damper SP315x311	299946 299718 299722 299708 Straight air flow 074601 (230V AC motor) 074600 (24/48V DC motor)		Air grille YG300x300 Duct connection Ø315 Duct connection Ø315 for mounting on inlet hood Internal air inlet hood Flexibox SA /230 or 48 Motorised exhaust damper SP315x311 Duct connection Ø315 Duct connection Ø315 Air grille YG300x300	299946 299718 299722 299708 Straight air flow 074601 (230V AC motor) 074600 (24/48V DC motor) 299718 299718 299946/299956 (w. insect net)

MOUNTING ACCESSORIES

FLEXIBOX 400

Product selection (all inside dimensions, if no remarks)	Article number	Illustration
Duct connection Ø315 on top of Flexibox Measurements: 400x400x70 (HxWxD)	299718	
Mounting bracket, 4 pieces can be used for vertical duct connection. Measurements: 275x50x40 (HxWxD)	299673	
Internal air inlet hood (Aluzinc AZ150) Measurements: 470x388x380 (HxWxD)	299708	
Duct connection Ø315 for mounting on inlet hood Measurements: 530x440x70 (HxWxD)	299722	
Air inlet net 10x10mm (Aluzinc AZ150) Measurements: 400x400x0,8 (HxWxD)	299717	
External air inlet hood with net 10x10mm (Aluzinc AZ150) Measurements: 513x601x440(HxWxD)	299653	
Mounting bracket for horizontal mounting, 2 pieces required Measurements: 202x452x42 (HxWxD)	299650	
Rain hood for Flexibox TWCA (Top air inlet) with net 10x10mm (Aluzinc AZ150) Measurements: 225x580x406 (HxWxD)	299724	
Rain hood for Flexibox ODCA (Top air inlet) with net 10x10mm (Aluzinc AZ150) Measurements: 257x563x500 (HxWxD)	299767	
Exhaust air damper with motor actuator SP800x211. Aluminium profiles w/rubber gasket air outlet above door.	074608 (230V AC motor) 074609 (24/48V DC motor)	
Exhaust air rain hood (Aluzinc AZ150) Measurements: 220x800x400 (HxWxD) Placement recommended: above door in shelter.	299942	
Exhaust air damper with motor actuator SP315x311 Aluminium profiles w/rubber gasket.	074601 (230V AC motor) 074600 (24/48V DC motor)	
Air grille 300x300 (Galvanized)	299946 (grill 11,8x11,8) 299956 (with insect net)	
Mechanical shutter JS800x180	299945	
External electrical heater 1300W with built-in fan 230V AC.	299879	
Outdoor temperature sensor, UG	299906	