

TKS 60
Indoor-mounted



TKS 60 HIGH-CAPACITY FREE COOLING FOR ELECTRONICS

TKS 60 is a free air cooler designed to control the internal environment of communication enclosures, using a minimum of energy. By means of ventilation in an overpressure system, the TKS 60 efficiently removes excess heat from the temperature-sensitive equipment, thereby strictly maintaining the temperature within defined limits.

The TKS 60 features an extra strong, insulated cabinet to allow for installation in very cold regions. The TKS60 is prepared for installation with Dantherm AirMaze air inlet protection – providing extra protection in harsh environments.

The unit can control existing air conditioning units, extend the air conditioner service life and create immense power savings.

With the built-in Dantherm Controller, this unit belongs to the 5th generation of Dantherm free cooling units: Yearlong know-how of control and energy efficiency is built in.

FEATURES AND BENEFITS

Energy efficiency and environment

- Total heat management – designed for energy efficiency with maximum use of controlled ventilation.
- Certificates and approvals: CE, WEEE & ROHS.

Cabinet

- Easy installation both indoor and outdoor
- Indoor-mounting
- Constructed of weather-resistant, insulated sandwich panels
- Standard M5 bag filter (not delivery-included)

Controller

- Dantherm ACUE 3000/48 VDC , TKS 3000 A EC/230VAC controller, unit-integrated
- Control of external air conditioning unit(s)
- Control of external heater
- Control of motorised damper(s)
- Communication port RS 232, Modbus protocol
- Filter monitor

Optional features

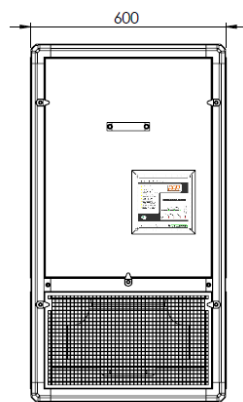
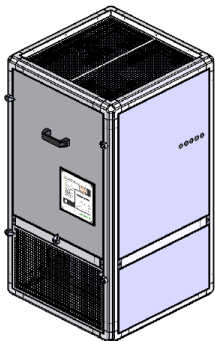
- Remote monitoring
- Prepared for AirMaze air inlet/outlet protection



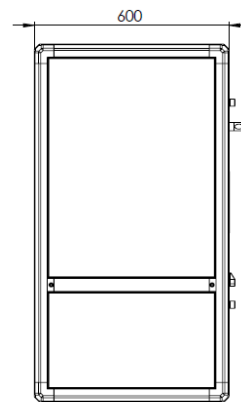
TECHNICAL DATA TKS 60, INDOOR

Version	Unit	230V AC (EC-fan)		48V DC (EC-fan)
		A	B	n/a
Item number		367007		
Model		A	B	n/a
Nominal air flow	m³/h	3700	4200	3200
Nominal cooling capacity in W/K ($\Delta t=1^{\circ}\text{C}$)	W/K	1230	1400	1050
Nominal fan power consumption (at 100% fan speed)	W	529	782	374
Sound pressure at 1m distance from shelter	dB(A)	~64	~67	~64
Fan nominal voltage	V	230V AC	230V AC	48V DC (42-57V DC)
Max current	A	2.2	3.4	7.8
Filter bag (not included)	Class	M5	M5	M5
Filter area	m²	2.2	2.2	2.2
Height	mm	1100	1100	1100
Width	mm	600	600	600
Depth	mm	600	600	600
Weight	kg	51	53	50
Controller		Dantherm TKS 3000	Dantherm TKS 3000	Dantherm ACUE 3000
Approvals		CE, ROHS		

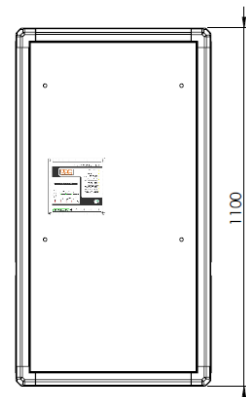
DIMENSIONS



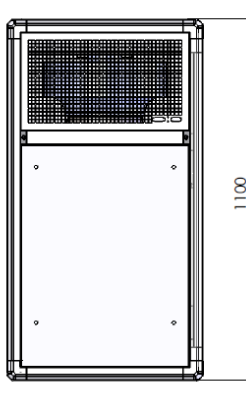
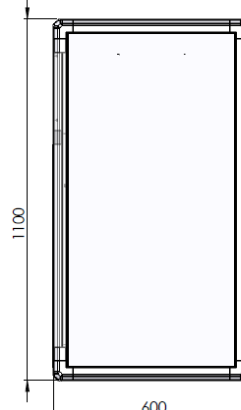
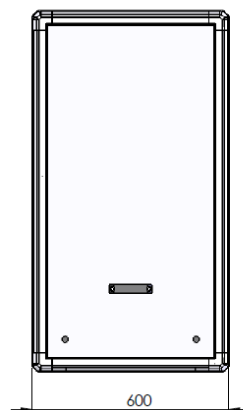
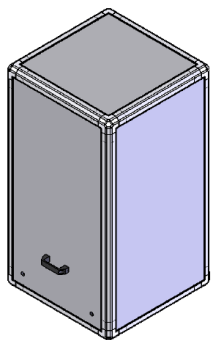
Front



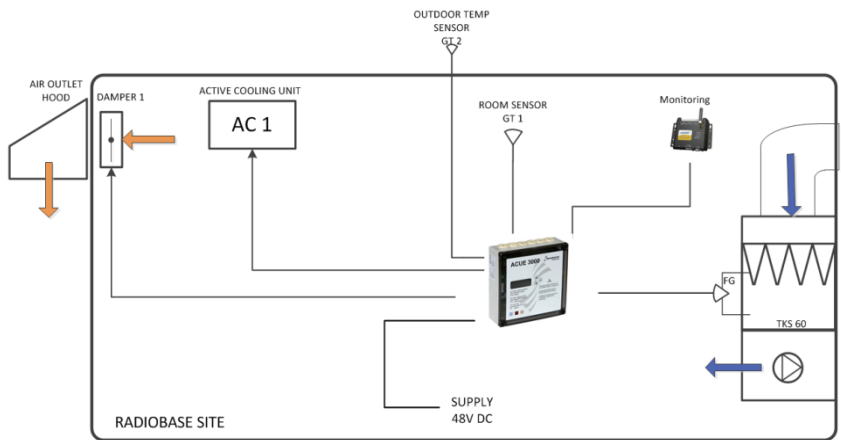
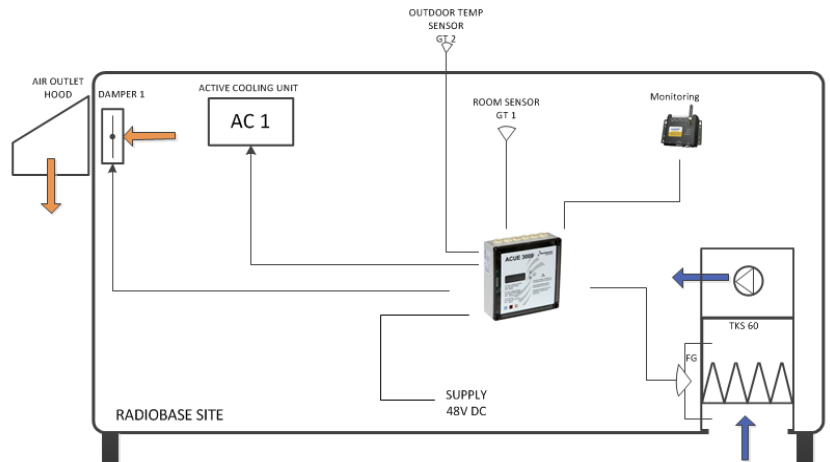
Side



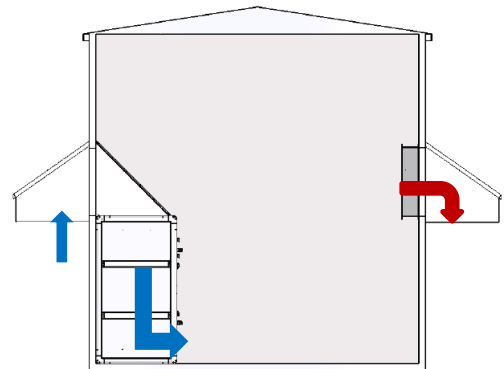
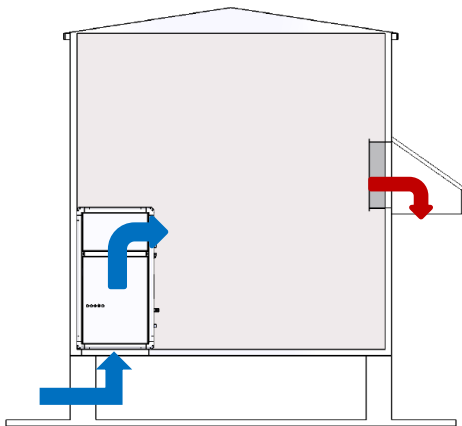
Back



FLOW - & CONNECTION CHART

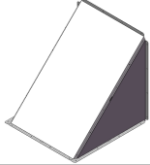
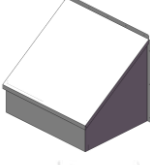





MOUNTING ALTERNATIVES



MOUNTING OPTION 1		MOUNTING OPTION 2	
Mounting type	Air inlet through floor	Mounting type	Air inlet through wall
Product variant ID	367007, 48-No	Product variant ID	367007, 48-No-Do
Needed accessories		Needed accessories	
M5 bag filter (not included)	087363	M5 bag filter (not included)	087363
Motorised exhaust damper SP500x511	091703 (24/48V DC motor) On request (230V AC motor)	Motorised exhaust damper SP500x511	091703 (24/48V DC motor) On request (230V AC motor)
- or -		- or -	
Gravity damper U 500x500	091704	Gravity damper U 500x500	091704
External air hood	091605	Internal air hood	091436
		External air hood (X2)	091605

MOUNTING ACCESSORIES

Product selection	Item number	Illustration
Internal air hood for TKS 60 (Aluzinc AZ150) Measurements (w. mounting flanges): 580x560x580 (HxWxD)	091436	
External Air Hood for TKS 60 (Aluzinc AZ150) including net 10x10mm Measurements (w. mounting flanges): 513x565x565(HxWxD)	091605	
M5 bag filter for TKS 60 (Not included)	087363	
Gravity damper U 500x500 mm aluminium, standard, with net 8x8 mm (galvanized steel) For mounting from outside Measurements: 625x735x50 (HxWxD)	091704	
Exhaust air damper with motor actuator SP500x511 Aluminium profiles w/rubber gasket.	091703 (24/48V DC motor) On request (230V AC motor)	
Outdoor temperature sensor, UG	299906	