

MASTERVEIL

The art of invisible doors

MODELS

AC1000/133	AC1000/146	AC1000/160
AC1000/2133	AC1000/2146	AC1000/2160
AC1000/3133	AC1000/3146	
AC1000/4133	AC1000/4146	
AC1000/5133	AC1000/5146	



version 3.2 - C1



Combine the exceptional tailor-made characteristics of a Masterveil AIRSTOP system with an absolute compact design. Specially designed for continuous usage in low pressure environment.

Perfect for zone protection in super-markets or industrial openings with minimal wind influences (like good functioning dockshelters). Ideal for large volume application due to the optimized installation costs.

The AC1000 comes more or less like a PLUG & WORK system. This gives the absolute lowest installation costs.

Exceptional asset for this range is the extreme low energy consumption in combination with the highest performances, typical to Masterveil's Art of invisible doors.

YOUR ADVANTAGES

- Stable temperature and/or better comfort
- Keep wrong influences outside
- Well defined zones (eg supermarkets)
- Energy and money saving during long open door periods
- Ideal combination of design and optimal protection
- Advantages from standard and tailor-made in 1 UNIT

CHARACTERISTICS

- Tailor-made length
- Mono-phase
- Compact design
- High pressure Airstop
- Preferred height 2.20 - 2.60m
- Temperature difference 8 - 10°C
- AC fans (except * then EC Fan)

STEERING

		AC1000 -133	AC1000 -2133	AC1000 3133/4133	AC1000 -5133	AC1000 -146/HT/ HF	AC1000 2146/ 3146	AC1000 -4146	AC1000 -5146	AC1000 -160	AC1000 2160
TR	STRA-1-15L	X									
TR	STRA-1-35L		X							X	
TR	STRA-1-50L			X							X
TR	STRA-1-75L				X						X
EC	PEC-K 5A					X	X				
EC	PEC-K 7A							X	X		

APPLICATION DOMAINS

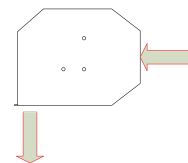
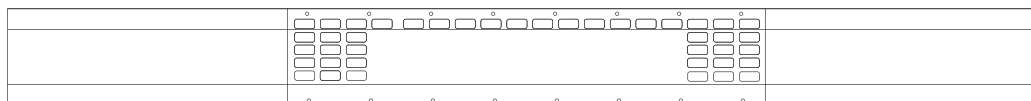
COOL	DESIGN	FREEZERS	LOGISTICS & COMFORT	OUTSIDE	RETAIL
X		X		X	X

ESPECIALLY SUITABLE FOR

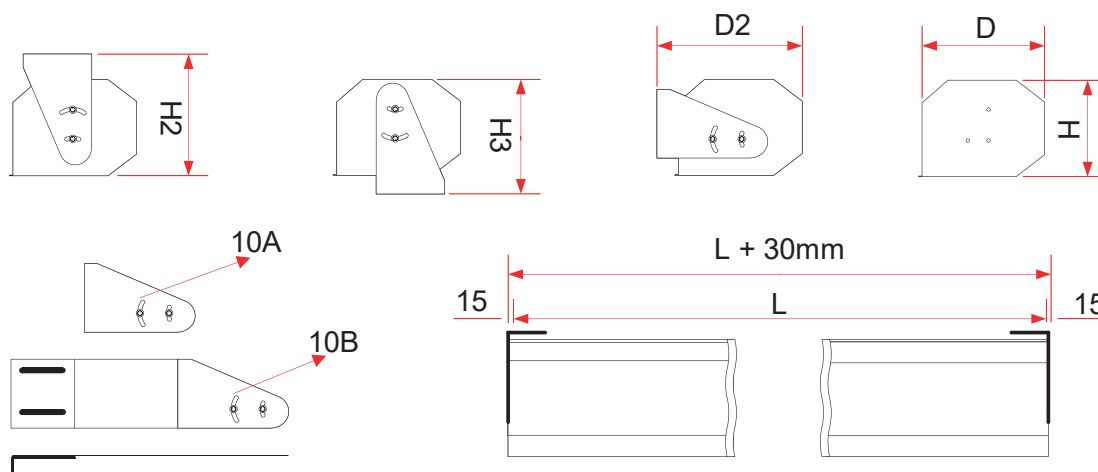
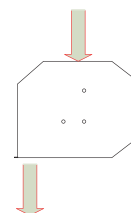
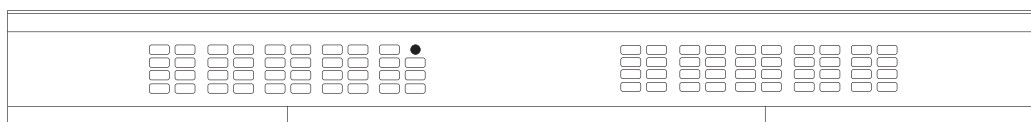
- Dust and clean air
- Walkthrough cold cabinets
- Protecting operators at machines

DIMENSIONS & MEASUREMENTS

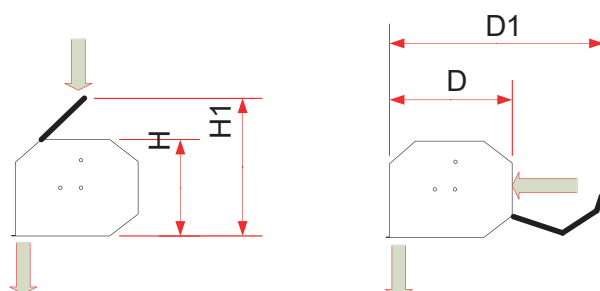
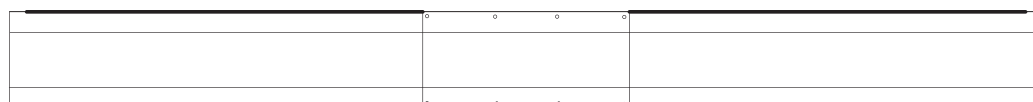
2T.A



2T.B



2T.D



**MASTERVEIL AC-1000
MVE 1505 15-1**

DIMENSIONS & MEASUREMENTS

TYPE ON DRAWING	EUR NAME	SV NAME	D	D1	H	H1
2T.A	AC1000-133-XF		352mm		262mm	
2T.B	AC1000-133-XT		352mm		262mm	
2T.A	AC1000-146-1-T		352mm		262mm	
2T.B	AC1000-146-1-T		352mm		262mm	
2T.C	AC1000-146-2-T		352mm		262mm	
2T.C	AC1000-146-3-T		352mm		262mm	
2T.C	AC1000-146-4-T		352mm		262mm	
2T.C	AC1000-146-5-T		352mm		262mm	
2T.D	AC1000-146-1-TH		352mm		272mm	552mm
2T.E	AC1000-146-1-H		352mm	570mm	262mm	
2T.A	AC1000-160-1-F		352mm		262mm	

TYPE ON DRAWING	EUR NAME	SV NAME	D2	H2	H3	Intake
2T.A	AC1000-133-XF		387mm	348mm	293mm	Front grille
2T.B	AC1000-133-XT		387mm	348mm	293mm	Top grille
2T.A	AC1000-146-1-T		387mm	348mm	293mm	Front grille
2T.B	AC1000-146-1-T		387mm	348mm	293mm	Top grille
2T.C	AC1000-146-2-T		387mm	348mm	293mm	Top grille
2T.C	AC1000-146-3-T		387mm	348mm	293mm	Top grille
2T.C	AC1000-146-4-T		387mm	348mm	293mm	Top grille
2T.C	AC1000-146-5-T		387mm	348mm	293mm	Top grille
2T.D	AC1000-146-1-TH		387mm		293mm	Top grille
2T.E	AC1000-146-1-H		387mm	348mm	293mm	Top grille
2T.A	AC1000-160-1-F		387mm	348mm	293mm	Front grille

AVAILABLE OPTIONS

		AC1000 /133	AC1000 /146	AC1000 /160	AC1000 /133/2-5	AC1000 /146/2-5	AC1000 / 2x160
Drum position	Horizontal	X	X	X	X	X	X
	Vertical	X	X	X	X	X	X
	Double standing	X	X	X	X	X	X
	Airlock	X	X	X	X	X	X
Drum design	Industrial	X	X	X	X	X	X
	Round		-	-	-	-	-
	Drop		-	-	-	-	-
Fan	Compact inbuilt	1	1	1	2/3/4/5	2/3/4/5	2
Heater	Electrical	-	-	-	-	-	-
	H2O	-	-	-	-	-	
	Heat pump	-	-	-	-	-	-
Filter	Flat filter	Opt	Opt	Opt	Opt	Opt	Opt
	Bag filter	-	-	-	-	-	-
	Mini bag	-	-	-	-	-	-
Control	EC	-	X	-	X	X	-
	Freq	-	-	-	-	-	-
	Modbus (CXE)	-	Opt	-	Opt	Opt	-
	Transform	X	-	X	X	-	X
	X_step	-	0-10	X	-	0-10	X
	Indoor controlled		-	-	-	-	-
	Outdoor controlled	-	-	-	-	-	-
Heater parts	None	-	-	-	-	-	-
	Magnet	-	-	-	-	-	-
	3way valve	-	-	-	-	-	-
	Freeze protect	-	-	-	-	-	-
	Zone valve	-	-	-	-	-	-
	Indoor sensor	-	-	-	-	-	-
	Outdoor sensor	-	-	-	-	-	-
	Thyristor	-	-	-	-	-	-
Switcher	Mechanical	X	24V	X	X	24V	X
	Magnet						
	Photocell						
Drum type	Galvanised	-	-	-	-	-	-
	Aluzinc	Opt	Opt	Opt	Opt	Opt	Opt
	Aluminium		-	-	-	-	-
	Ral painted	X	X	X	X	X	X
Stainless	Drum	Opt	Opt	Opt	Opt	Opt	Opt
	Fan box	-	-	-	-	-	-

WARNING

EQUIPMENT NOT SUITED FOR QUICK (REPETITIVE) START/STOP.
CONNECT WITH TIMER OR CENTRAL SIGN.

TECHNICAL DATA

Dimension DxH	Drumlenght	Type of fan	Other colours	Stainless	Filter	Design
352x262	Custom made	Double inlet radial	Optional	Optional	Optional	Industrial Compact

Type	Diameter ducting	fan model	Voltage	kW	Ampere	Freq	Electricalheated	Heating	Ambi
AC1000-133	200	4	230	0,23	1,15	50	-	-	Yes
AC1000_146	200	1	230	0,167	1,3	50	Opt	El.	Yes
AC1000_160	2*200	2	230	0,45	2	50	Opt	El.	Yes
AC1000-2133	-	4	230	0,46	2,3	50	-	-	Yes
AC1000-3133	-	4	230	0,69	3,45	50	-	-	Yes
AC1000-4133	-	4	230	0,92	4,6	50	-	-	Yes
AC1000-5133	-	4	230	1,15	5,75	50	-	-	Yes
AC1000_2146	-	1	230	0,334	2,6	50	-	-	Yes
AC1000_3146	-	1	230	0,501	3,9	50	-	-	Yes
AC1000_4146	-	1	230	0,668	5,2	50	-	-	Yes
AC1000_5146	-	1	230	0,835	6,5	50	-	-	Yes
AC1000-2160	-	2	230	0,9	4	50	-	-	Yes

Type	Environ-menttemp °C	Weight kg	Ral	Inbuild	Nrfans	Condensa-tor µF	IP
AC1000-133	40 /-25	-/14 pro m	Aluzinc	-	1	5	44
AC1000_146	55 /-25	-/14 pro m	Aluzinc	-	1		20
AC1000_160	40 /-25	-/16 pro m	Aluzinc	-	1	10	20
AC1000-2133	40 /-25	Fans 9kg +15kg pro m	Aluzinc	-	2	5	44
AC1000-3133	40 /-25	Fans 13kg +15kg pro m	Aluzinc	-	3	5	44
AC1000-4133	40 /-25	Fans 17kg +15kg pro m	Aluzinc	-	4	5	44
AC1000-5133	40 /-25	Fans 21kg +15kg pro m	Aluzinc	-	5	5	44
AC1000_2146	55 /-25	Fans 6kg +15kg pro m	Aluzinc	Opt	2		20
AC1000_3146	55/-25	Fans 9kg +15kg pro m	Aluzinc	-	3		20
AC1000_4146	55 /-25	Fans 12kg +15kg pro m	Aluzinc	Opt	4		20
AC1000_5146	55 /-25	Fans 15kg +15kg pro m	Aluzinc	Opt	5		20
AC1000-2160	40/-25	Fans 14kg +15kg pro m	Aluzinc	-	2	10	20

Type	IP	Motor-protect	Volume m³/h (WP)	Rotati-on	Volume m³/h (MAX volume/minium Pa ,on fan datafile)	Pressure Pa (max)	Sound db(A)	Steering
AC1000-133	44	Int	700	2000	922/80pa	464	65	STRA
AC1000_146	20	Int	700	1550	1155/0pa	400	50-65	PEC-K
AC1000_160	20	Ext	950	1850	1235/215pa	650	50-65	STRA
AC1000-2133	44	Int	1250	2000	1844/80pa	464	65	STRA
AC1000-3133	44	Int	1875	2000	2766/80pa	464	65	STRA
AC1000-4133	44	Int	2500	2000	3688/80pa	464	65	STRA
AC1000-5133	44	Int	3125	2000	4610/80pa	464	65	STRA
AC1000_2146	20	Int	1250	1550	2310/0pa	400	65	PEC-K
AC1000_3146	20	Int	1875	1550	3465/0pa	400	65	PEC-K
AC1000_4146	20	Int	2500	1550	4620/0pa	400	65	PEC-K
AC1000_5146	20	Int	3125	1550	5775/0pa	400	65	PEC-K
AC1000-2160	20	Int	1750	1850	2470/0pa	650	65	STRA

AC1000/146 - AC1000/(x)133 - AC1000/(x)146 * - AC1000/(x)160 *= EC Fantype Others= AC Fantype

MOUNTING INFO

- Place the air curtain in the environment with the most stable air conditions.
- Make sure that the air curtain has a free intake.
- Make sure that the air curtains have a free outblow.
- Position the outblowmouth to the side of the door.
- The airstream needs to touch the ground with a restricted re-circulation zone.
- Our preference : outblow angle must be adjustable (+/- 15°).
- Position optimal outblow angle considering draught/ wind/temperature difference.
- In critical applications, space between wall and air curtain must be protected .
- By preference, use a minimal overlap of 10cm on each side.
- Place the underside of the air curtain as close as possible to the upper side of the door.
- Keep a distance between wall and drum for about 10cm.
- Free outblow is necessary, check driving protection, electronica, door contacts, panel,...
- In case drum needs to be placed close to the wall, make sure that you have free flow without deviation through objects.
- Consider the type of products that go through the opening (open, packed, weight, sensible, fragile,...).
- Consider the comfort of people that go through the door.
- Consider long unprotected areas that can have influence on the protection.
- Evaluate alternatives like side, upside blowing.
- Consider distance between air curtain and people, even 24°C moving air can feel cold.
- Check how many people that are in direct/indirect airstream.
- Keep in mind that air curtains are not 100% efficiency.
- Check capacity to compensate remaining losses.
- Check alternatives / additional components.
- Fluent access to equipment & filters.
- Easy exchange parts must be foreseen.

ARRANGEMENT & MOUNTING

! INSTALLATION CAN ONLY BE EXECUTED BY CERTIFIED & SKILLED TECHNICIANS !

Mount the fan horizontally or vertically in a weather-protected place. Make sure that the fan is protected against vibration and shocks. Supply open inlet and discharge openings with guards according to valid regulations. Also make sure the drive motor is sufficiently vented. Check the permitted environment/ intake conditions.

A) The 160 fan unit has an extracted thermo contact conductor. They must be connected for safety reasons if the engine coil temperature gets too high. To restore the thermo contacts: disconnect the electrical connection, wait until the motor has cooled down, and then restore the electrical connection.

B) 133/146 fan units have an internal automatic thermocontact (by normal temperature it will restart automatically)

The fan is designed for continuous use. Its rotation speed can be regulated with external equipment by changing the current supply. It is not designed for operation with flammable, hazardous or explosive gases, polishing dust, flour etc.

Intake air can NOT contain aggressive (cleaning) products.

For more specifications we refer to the fan instructions.

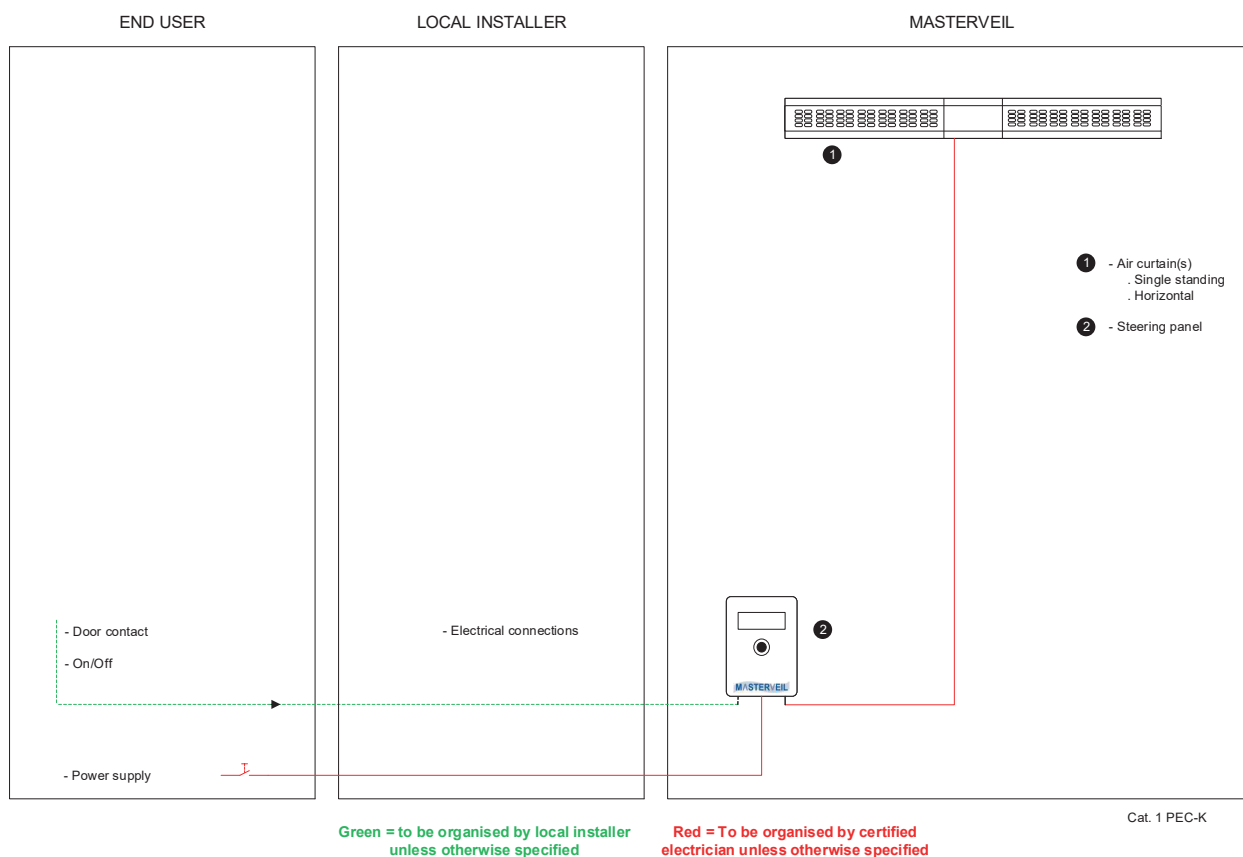
We decline all responsibility for any errors and for the accuracy of the information provided.

We reserve the right to modify or substitute products, descriptions, accessories without any notice.

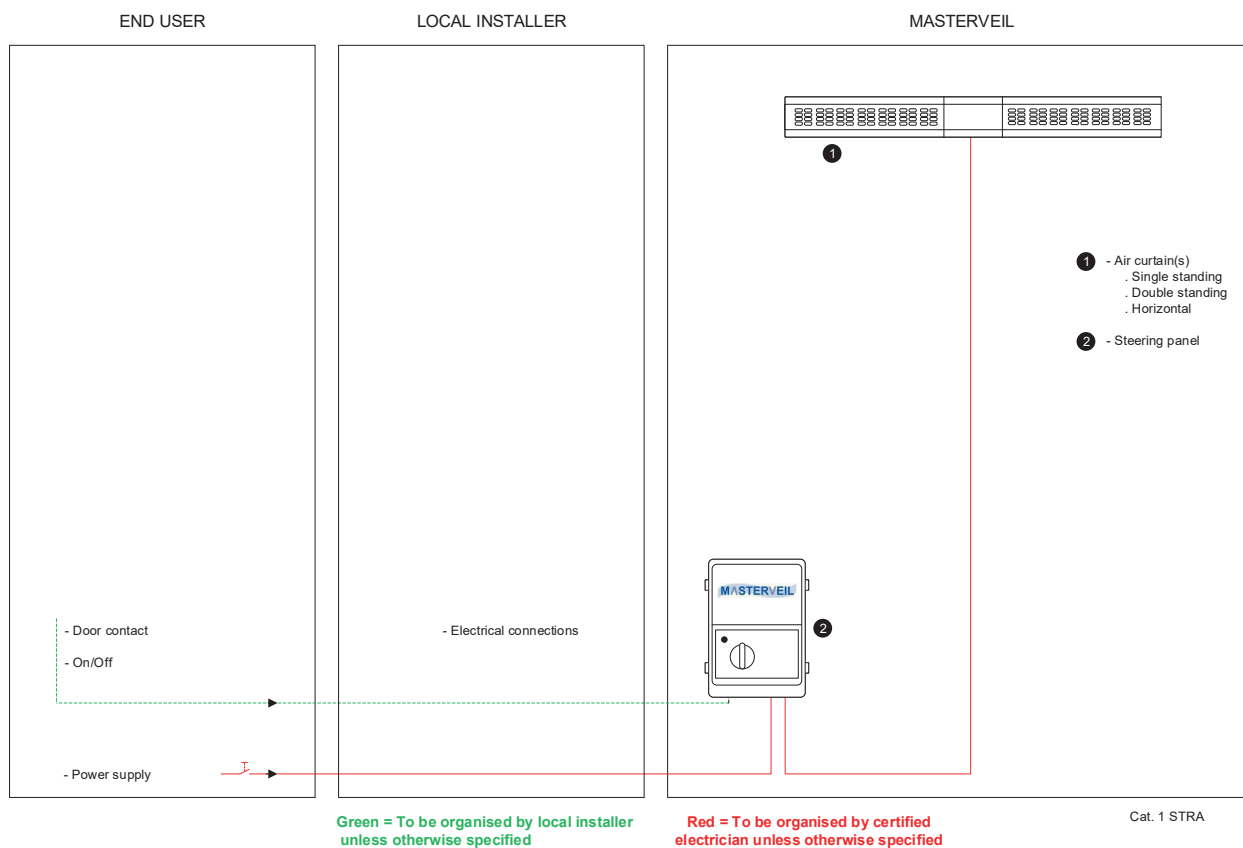
Minor adaptations can occur depending on regulations, versions, ...

! IN CASE OF QUESTIONS CONTACT THE DEALER OR A CERTIFIED PARTNER !

GRAPHICAL PRESENTATION - PEC-K STEERING



GRAPHICAL PRESENTATION - STRA STEERING







MASTERVEIL

The art of invisible doors



Invisible doors



Freezer solutions



Humidification



Dehumidification

MASTERVEIL CERTIFIED PARTNER

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