Technical features

Maximum range
M : 3,5 m ECM : 3,8 m
G : 4,5 m ECG : 5 m

Airflow / Length
5400 - 14400 m³/h
1,5 m to 3 m

Fans
Centrifugal
5-speed

Chamber temperature
>0ºC to -25ºC

Protection grade
Air curtain IP20 [*]
Fans IP44 [**]

Control
Plug&Play Advanced PRO
+ IR remote control
(Optional Clever Control)

Casing
Galvanised steel /
Stainless Steel (optional)

Grille type
Circular perforated

Outlet vanes
Aluminium, airfoil type
Adjustable 0-15º each side

RAL 9016 standard

Stainless steel

Aqua Aero coating on request

Other colors on request

[*] Optional M or G IP55 air curtain.

[**] Optional IP55 fans.

TWIN KOOL air curtain system has been designed to offer a versatile solution to any type of cold room.

Highly efficient climatic separation against thermal losses caused by the large temperature difference with 2 jets and recirculation technology.

Recommended for chambers over 0ºC where humidity control is not required like vegetables storage or chambers below 0ºC with pre-chambers with controlled conditions of humidity and temperature.

The system consists of two air curtains facing each other vertically with the jets reversed and extra intakes from pre-chamber. This double jet works as a closed circuit creating a separation zone at the door entrance. Thanks to this double air barrier, this is a cheaper alternative to the TRIOJET SYSTEM when space is limited. It requires a ceiling to cover 100% of the opening with the 2 jets (not included, must be provided by others)

We recommend Aqua Aero coating (15.000 hours salt spray test) or stainless steel to improve the protection against corrosion.

With double-inlet centrifugal low noise fans driven by an external rotor motor.

Advanced Plug&Play control. Includes: Advanced PRO control with LCD display and integrated thermostat, door contact, 7m RJ11 cable and remote control. Optional: intelligent Clever PRO Control (automatic, programmable, modbus for PLC, timer, etc).

TWIN KOOL

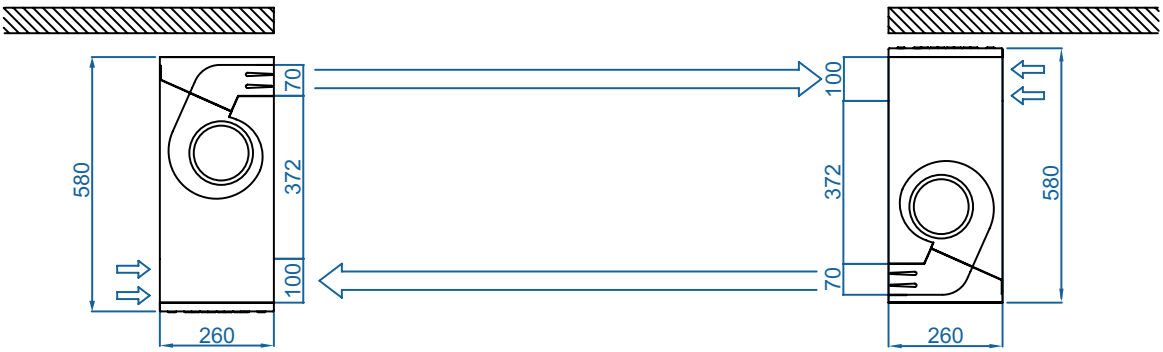
AIR CURTAINS FOR INDUSTRIAL
COLD STORES AND FREEZERS

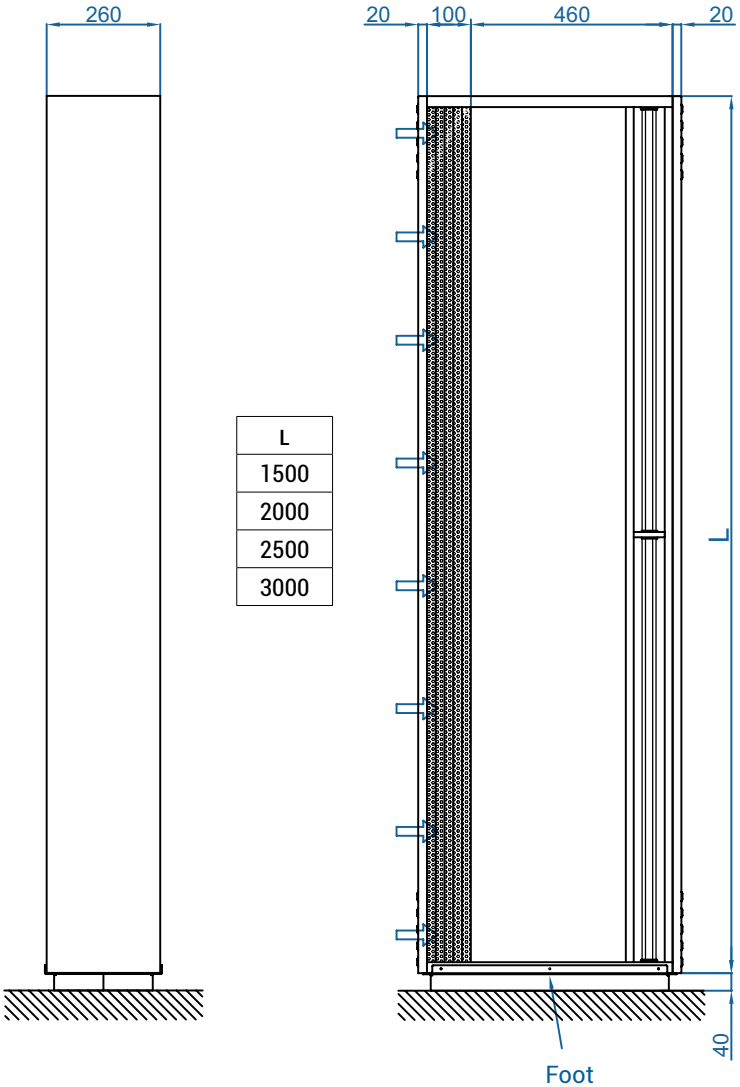
UNHEATED

Model	Airflow 230V		Ventilation power 230V		Ventilation current 230V		Noise Level (5 m)	Weight
	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		
	m^3/h	m^3/h	kW	kW	A	A	dBA	kg
TWIN KOOL M 1500 A	5400	5800	0,636	0,744	2,82	3,30	59	56
TWIN KOOL M 2000 A	7200	7680	0,848	0,992	3,76	4,40	60	70
TWIN KOOL M 2500 A	9000	9700	1,060	1,240	4,70	5,50	61	76
TWIN KOOL M 3000 A	10800	11640	1,272	1,488	5,64	6,60	62	88
TWIN KOOL ECM 1500 A	5520	5520	0,426	0,426	3,72	3,72	60	56
TWIN KOOL ECM 2000 A	7360	7360	0,568	0,568	4,96	4,96	61	70
TWIN KOOL ECM 2500 A	9200	9200	0,710	0,710	6,20	6,20	62	76
TWIN KOOL ECM 3000 A	11040	11040	0,852	0,852	7,44	7,44	63	88
TWIN KOOL G 1500 A	6400	6400	1,712	0,992	7,60	4,40	61	61
TWIN KOOL G 2000 A	9600	9600	2,568	1,488	11,40	6,60	62	80
TWIN KOOL G 2500 A	11200	11200	2,996	1,736	13,30	7,70	63	86
TWIN KOOL G 3000 A	12800	12800	3,424	1,984	15,20	8,80	64	98
TWIN KOOL ECG 1500 A	7200	7200	0,568	0,568	4,96	4,96	65	61
TWIN KOOL ECG 2000 A	10800	10800	0,852	0,852	7,44	7,44	66	80
TWIN KOOL ECG 2500 A	12600	12600	0,994	0,994	8,68	8,68	67	86
TWIN KOOL ECG 3000 A	14400	14400	1,136	1,136	11,92	11,92	68	98

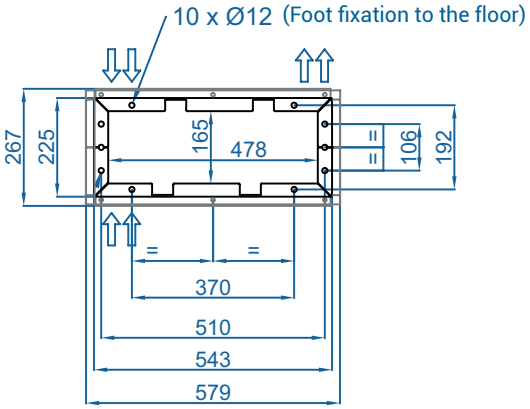
Selection program

Dimensions





L
1500
2000
2500
3000

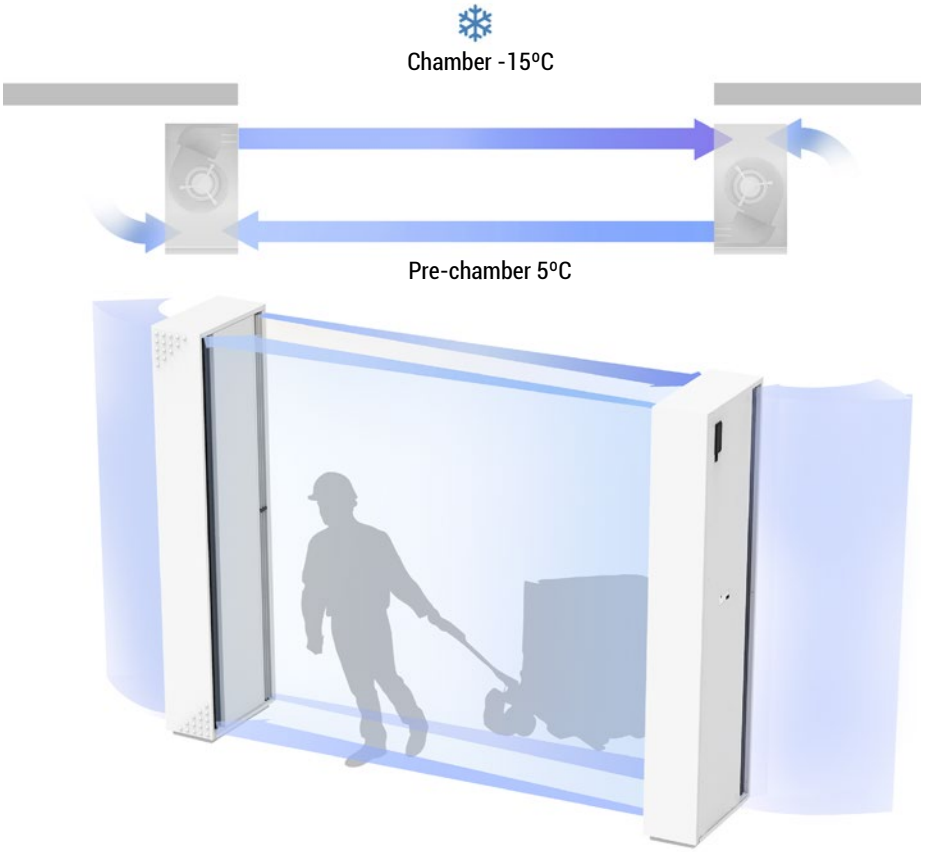


(Foot fixation to the casing)

CAD drawings, BIM files, installation manuals and other documentation

CAD BIM

Functioning



We consider a chamber at -15ºC and a pre-chamber at 5ºC (thermal leap 20ºC).

The TWIN KOOL SYSTEM with two air curtains facing each other, creates a separation zone in the door that acts as a very efficient barrier against adverse situations.

This separation zone is created by self-recirculation in such a way that both air curtains suck the jet from the other curtain, along with air from the pre-chamber itself.
This separation area is maintained between the temperature of the chamber and the pre-chamber thus reducing the temperature exchange between both sides.

Optionally, depending on the installation, electrical heating can be used to help remove ice from the ground and reduce humidity.

Optional accessories

Supports and installation

Foot support
SPF-DAM
(Galv. / SS)

Joining kit
SPJ-MG
(Galv. / SS)

Control

ADVANCED PRO
✔ Included

IR Control
✔ Included

RJ11 Cable
✔ Included

CLEVER PRO

Sensors

Mechanical door contact
MEC-DC

External Temperature
Sensor (Clever Control)