



## AS-E

Monoblock units suitable for products storage in mobile cold rooms

- › Suitable for the storage of fresh products in cold rooms mounted on trailers subject to continuous movement
- › Special units for outdoor installations
- › Extremely solid and effective
- › Easy, fast and cost-effective installation
- › Precise and functional control of the unit



## Standard configuration

- › Scroll compressor
- › Outdoor installation frame
- › Power supply 380-400/3N~/50
- › Air + Axial fan
- › Condenser fan pressure switch (frame 3 only)
- › Condenser fan pressure controlled fan speed regulator (frame 4, 5, 6 only)
- › Prearrangement for supervision system
- › Voltage monitor
- › Filter dryer on liquid line
- › Four-pole condenser fan
- › Expansion through capillary tube (expansion valve only in dual-temperature units)
- › Separator/accumulator on suction line
- › Condensate water evaporation drip tray
- › Hot gas defrost
- › Refrigerant charge
- › Electronic controller
- › Switchboard with protection fuses
- › Condenser fan pressure switch
- › Adjustable Lp switch with automatic reset
- › Adjustable Hp switch with automatic reset
- › 100mm insulated panel for wall mounting
- › Crankcase heater
- › Double defrost solenoid valve (from model 430 for MT / from model 450 for BT)
- › External power supply plug
- › 1m cold room lighting cable
- › 3m door micro-switch cable
- › Cataphoresis for condenser coil
- › Cataphoresis for evaporator coil



## Special units suitable for mobile cold rooms

The AS-E range models are monoblock units for outdoor installation designed for the storage of fresh products in rooms mounted on trailers subject to continuous movement.

The AS-E series is composed by 3 ranges: MAS for positive temperature rooms (max 186m<sup>3</sup> at Tc= +0°C, Tamb= +30°C), BAS for negative temperature rooms (max 160m<sup>3</sup> at Tc= -20°C, Tamb= +30°C) and PAS, polyvalent version capable to reproduce both temperature ranges.

The AS-E is a special unit for outdoor installation: the ABS body is designed to avoid rain infiltration, allowing the use of these groups on movable rooms without particular protection against atmospheric agents.

Extremely solid and effective, the body contains a powerful and versatile refrigeration system equipped with rotary or scroll compressor with a capacity adjustment option for PAS models. The expansion is through capillary.

The condensing section, integrated into the monoblock unit, is equipped with four-pole fan complete with a pressure switch for the fan.

The standard equipment of the AS-E models includes the liquid separator-accumulator complete with a filter drier, 100mm cold room panel and crankcase heater to ensure correct and reliable operations also in outdoor installations.

The unit is equipped with hot gas defrosting system with double solenoid valve and condensate evaporation tray.

The models equal or above size 430 are equipped with adjustable calibration maximum and minimum pressure switches with automatic reset, to increase safety and efficiency during operation.

The evaporating section, integrated in the monoblock unit, takes position inside the room following the through wall installation. The quick and easy installation consists of a single hole to accommodate the machine, leaving outside the condensing section.

To maximize the protection of all the components, the condensing section sucks the air from the bottom grid, while the air discharge is through the front grid.

The installation is simple and quick, facilitated by the provided external power supply plug, the cold room lighting cable (1m) and the micro switch door cable (3m).

The control and setting of the unit are simple and intuitive thanks to the electric control panel equipped with electronic control unit.

The panel, frontally fitted in the unit, includes safety fuses, the main switch, the temperature indicator associated to the electronic thermostat, the manual defrost button, the preheating switch and the power indicator light allowing the user to have an accurate control of the unit.

## Personalization options and accessories

### Power supply:

- › 220-230/1N~/50
- › 220-230/1N~/60
- › 220-230/3~/50
- › 220-230/3~/60
- › 460/3~/60

### Low ambient temperature accessories:

- › Crankcase heater + Condenser fan pressure switch + Double solenoid valve for defrosting + Heating function (frame 3 only)
- › Crankcase heater + Condenser fan pressure controlled fan speed regulator + Double solenoid valve for defrosting + Heating function (frame 4, 5, 6 only)

# Technical data



## Cooling capacity calculation conditions

Medium temperature units: [TC=0°C | TA=30°C]

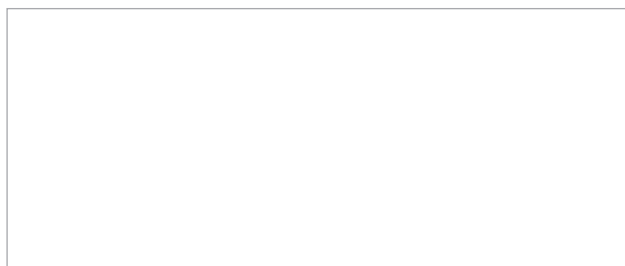
Low temperature units: [TC=-20°C | TA=30°C]

Dual-temperature units: [TC=-20°C | TA=30°C]

Code	MEDIUM TEMPERATURE UNITS									
	MAS320EB23TE	MAS430EB24TE	MAS535EB24TE	MAS545EB24TE	MAS660EB24TE	MAS320BB23TE	MAS430BB24TE	MAS535BB24TE	MAS545BB24TE	MAS660BB24TE
Refrigerant	R134a	R134a	R134a	R134a	R134a	R449A	R449A	R449A	R449A	R449A
Supply voltage [V/Ph~/Hz]	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50
HP compressor	4	6	7	9	10	2,3	3,5	4	6	7,5
Defrost	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas
PED category	1	1	1	1	2	1	1	1	1	2
Working temperature [°C]	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5
Cooling capacity [Watt]	3.770	5.942	7.462	9.007	12.084	3.561	5.606	6.853	9.325	11.011

Code	LOW TEMPERATURE UNITS					DUAL-TEMPERATURE UNITS			
	BAS330BB23TE	BAS450BB24TE	BAS555BB24TE	BAS560BB24TE	BAS680BB24TE	PAS330BB23TE	PAS450BB24TE	PAS565BB24TE	PAS695BB24TE
Refrigerant	R449A	R449A	R449A	R449A	R449A	R449A	R449A	R449A	R449A
Supply voltage [V/Ph~/Hz]	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50
HP compressor	3,5	5	6	7,5	10	3,5	5	7,5	10
Defrost	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas
PED category	1	1	1	2	2	1	1	2	2
Working temperature [°C]	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	+10 ÷ -5 -15 ÷ -25	+10 ÷ -5 -15 ÷ -25	+10 ÷ -5 -15 ÷ -25	+10 ÷ -5 -15 ÷ -25
Cooling capacity [Watt]	2.753	4.100	5.100	6.233	8.127	2.753	4.100	6.233	8.127

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