

Réalisé avec 19/03/2025 avec réfrigération Xpress V 7.4.0- Central 18.1.2 base de données

Nom du projet: MPS3112YA11A

Adresse du projet France

Seules les données du databook sont valables. Ce programme utilise des approximations relatives à ces données.

## 1. Liste du matériel

Modèle	Qté	Description
MPS3112YA11A	1	MT monobloc

## 2. Groupe extérieur Système 1

### 2.1. Données de sélection

Référence complète du modèle	Application		
MPS3112YA11A	MT monobloc		
Réfrigérant			
Type	R290		
GWP	3		
Données de sélection		Rating conditions	
Position	Mural	EN13215	
Surrounding temperature	27,0°C		
Données mécaniques		Données Electriques	
Longueur	1010mm	Alimentation électrique	V1: 1×230V, 50Hz
Hauteur	850mm	Rated input	
Profondeur	650mm	Intensité de démarrage	
Poids	87,6kg	Intensité maxi	

The monoblock, during its operation, is discharging a lot of heat which would need to be removed to secure the good operation of the unit. We assume that where the monoblock is situated, the surrounding air is conditioned. This can come from a separate air conditioning unit or by an additional local ventilation system. It is the designer responsibility to define the real surrounding ambient design conditions of the place where the monoblock will be installed, because this has an impact on the delivered capacity of the selected monoblock as well as the operation of it.

Important notes:

- Supervising system for remote monitoring and cloud access (3MCB001ACC (LAN only) or 3MCB002ACC (LAN + WIFI)): If you have single or multiple monoblock installed within one cold room, you only required one device. This device can be connected to all installed monoblock with the usage of a 3rd party wiring connection. Please refer to the Installation manual how to connect.

GWP = Global Warming Potential

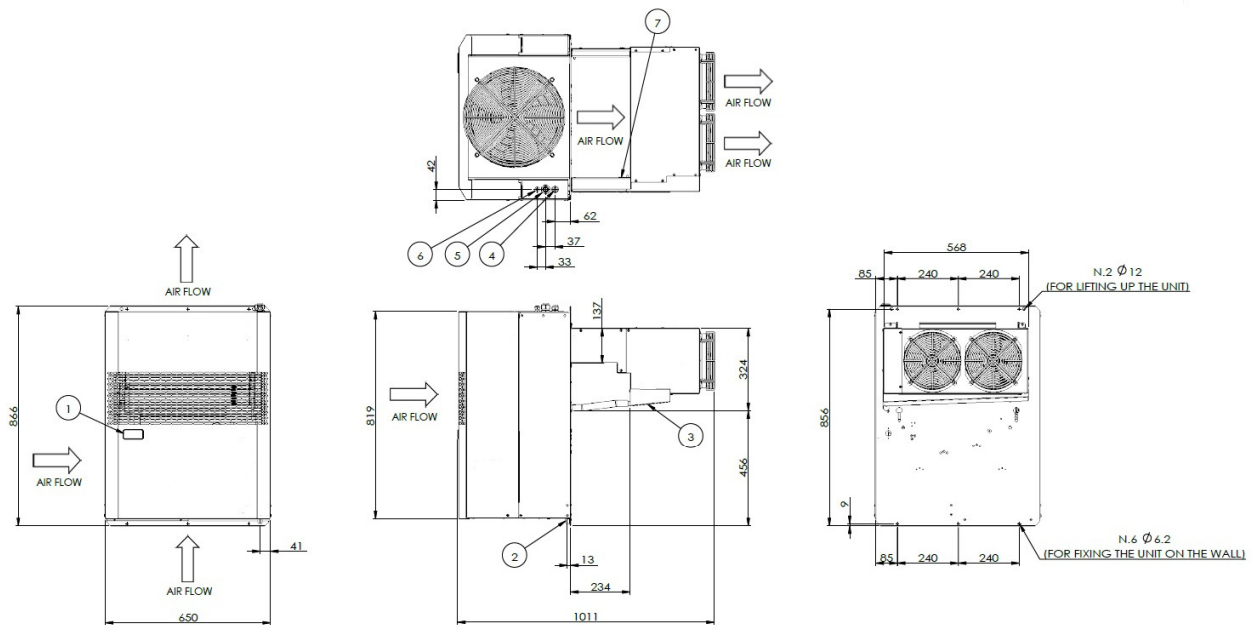
## 2.2. Capacity Table

T room	T surround	Max cap	Min cap	T room	T surround	Max cap	Min cap
°C	°C	kW	kW	°C	°C	kW	kW
-5,0	5,0	1,63		5,0	5,0	2,07	
	10,0	1,63			10,0	2,09	
	15,0	1,62			15,0	2,10	
	20,0	1,61			20,0	2,12	
	25,0	1,31			25,0	2,03	
	30,0	1,31			30,0	1,94	
	32,0	1,31			32,0	1,85	
	35,0	1,16			35,0	1,54	
	40,0	1,08			40,0	1,45	
	45,0	0,90			45,0	1,36	
0,0	5,0	1,97		10,0	5,0	2,25	
	10,0	1,94			10,0	2,43	
	15,0	1,91			15,0	2,36	
	20,0	1,88			20,0	2,29	
	25,0	1,78			25,0	2,19	
	30,0	1,69			30,0	2,10	
	32,0	1,60			32,0	2,00	
	35,0	1,34			35,0	1,75	
	40,0	1,26			40,0	1,71	
	45,0	1,17			45,0	1,68	

Cooling capacity according to EN 17432 «Packaged refrigerating units for walk-in cold rooms – Classification, performance and energy consumption testing».

T room °C	T surround °C	Volume (m³)		
		Wall 60mm	Wall 80mm	Wall 100mm
-5,0	5,0	18,80	20,60	22,60
	10,0	17,30	18,90	20,80
	15,0	14,90	16,30	17,90
	20,0	14,70	16,10	17,70
	25,0	14,50	15,80	17,40
	30,0	13,20	14,50	15,90
	32,0	12,60	13,80	15,20
	35,0	11,50	12,60	13,90
	40,0	9,80	10,70	11,80
	45,0	8,50	9,30	10,20
0,0	5,0	25,30	27,80	30,50
	10,0	23,50	25,80	28,30
	15,0	20,40	22,40	24,60
	20,0	19,70	21,60	23,80
	25,0	19,10	21,00	23,00
	30,0	17,30	19,00	20,90
	32,0	16,40	18,00	19,80
	35,0	15,00	16,40	18,00
	40,0	13,60	14,90	16,40
	45,0	11,90	13,10	14,40
5,0	5,0	33,60	36,80	40,50
	10,0	31,40	34,40	37,80
	15,0	28,00	30,70	33,70
	20,0	26,60	29,10	32,00
	25,0	25,60	28,10	30,90
	30,0	23,50	25,70	28,30
	32,0	22,40	24,60	27,00
	35,0	20,70	22,70	24,90
	40,0	17,80	19,60	21,50
	45,0	15,50	17,00	18,60
10,0	5,0	42,90	47,00	51,70
	10,0	40,20	44,10	48,40
	15,0	36,60	40,10	44,10
	20,0	34,30	37,60	41,30
	25,0	33,00	36,20	39,80
	30,0	30,50	33,40	36,70
	32,0	29,20	32,00	35,20
	35,0	27,30	29,90	32,90
	40,0	24,00	26,30	28,90
	45,0	21,20	23,20	25,50

## 2.3. Plan d'encombrement

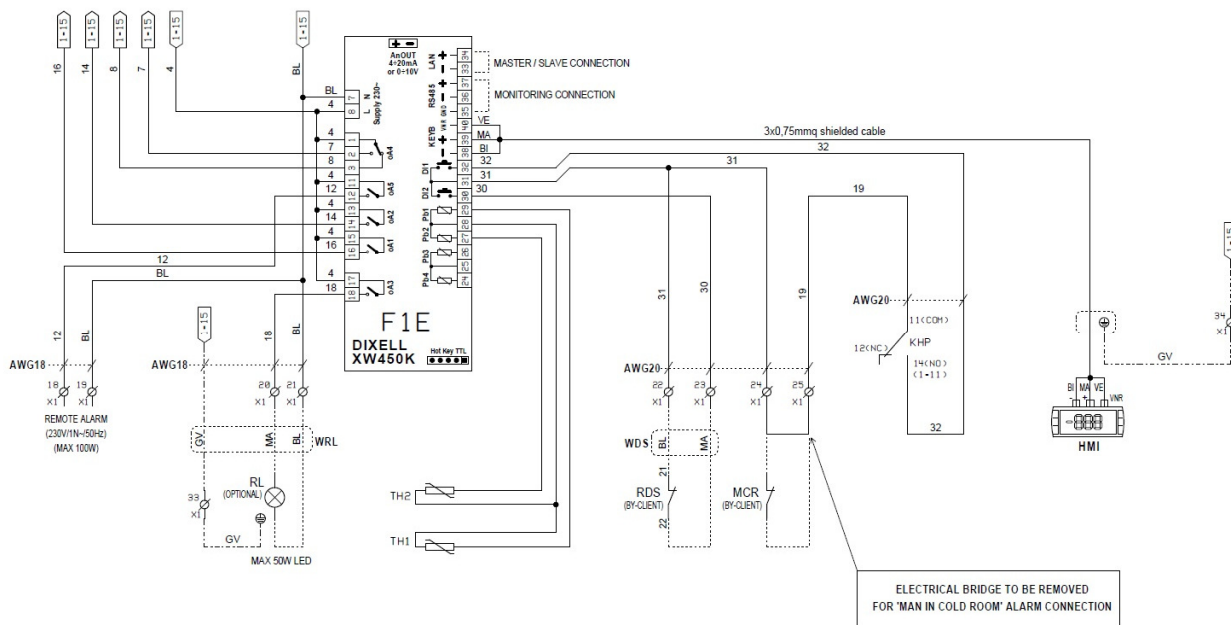
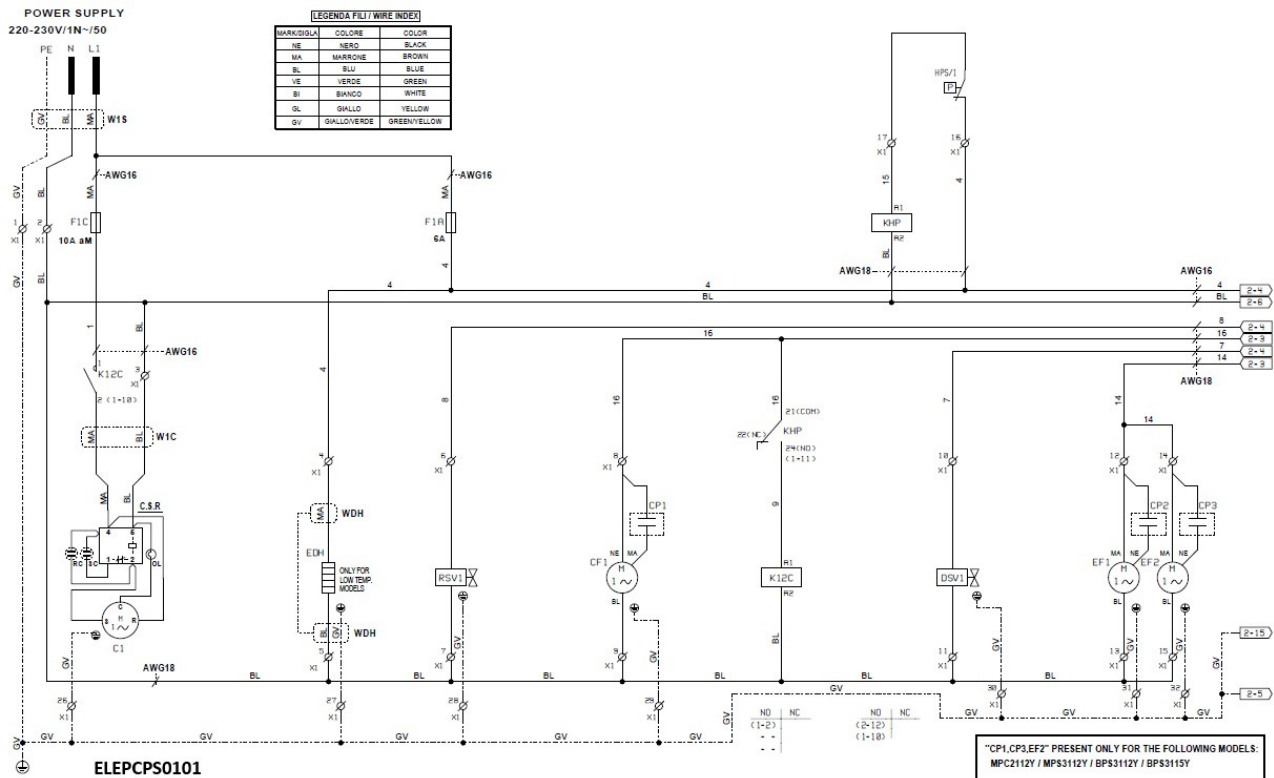


MEDIUM TEMPERATURE		
No.	Name	Note
1	Controller	
2	Drain outlet pipe	O.D. 14mm
3	Drain pan	
4	Cable for power supply	5m
5	Optional	
6	Cable for door switch	5m
7	Cable for light	2m

LOW TEMPERATURE		
No.	Name	Note
1	Controller	
2	Drain outlet pipe	O.D. 14mm
3	Drain pan	
4	Cable for door heater	5m
5	Cable for power supply	5m
6	Cable for door switch	5m
7	Cable for light	2m

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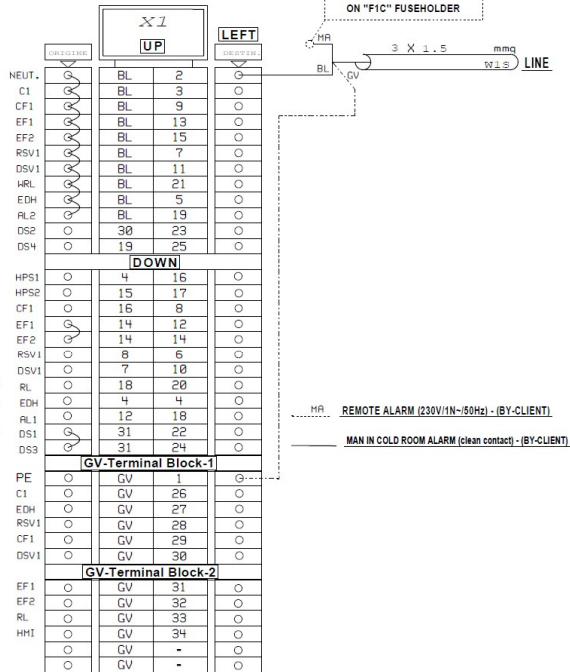
## 2.4. Schéma électrique



# LEGENDA FILI / WIRE INDEX

MARK/SIGLA	COLORE	COLOR
NE	NERO	BLACK
MA	MARRONE	BROWN
BL	BLU	BLUE
VE	VERDE	GREEN
BI	BIANCO	WHITE
GL	GIALLO	YELLOW
GV	GIALLO/VERDE	GREEN/YELLOW

## TERMINAL BOARD

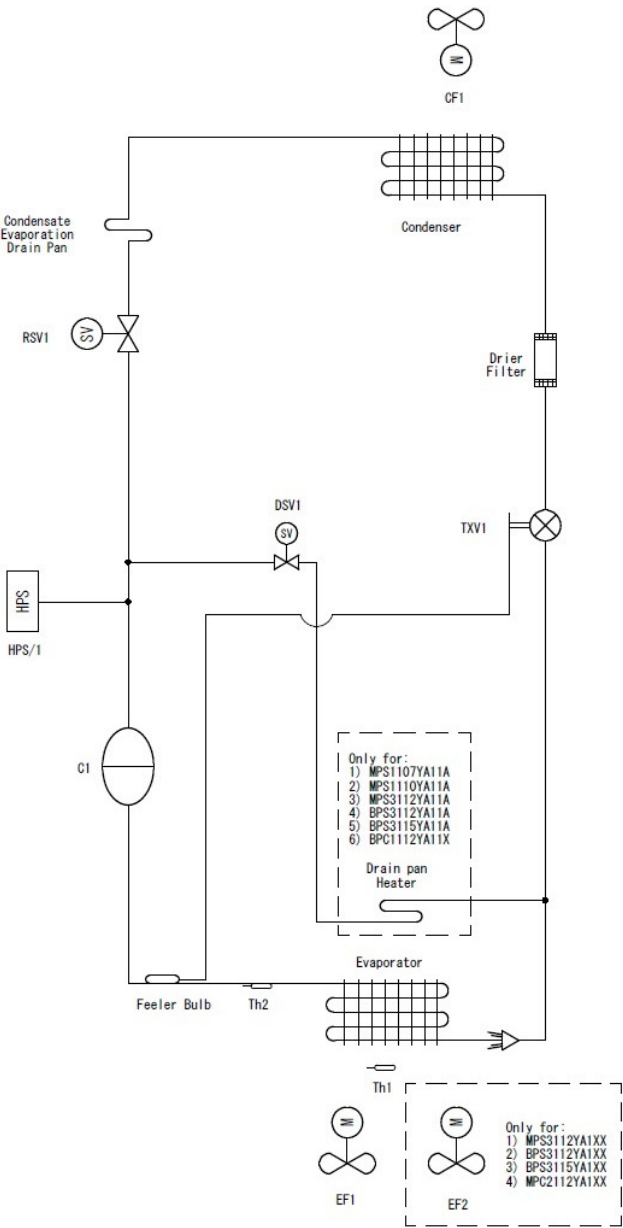


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DEVICE DISPOSIT.	DESCRIPTION / DESCRIZIONE	DEVICE DISPOSIT.	DESCRIPTION / DESCRIZIONE
C1	COMPRESSOR 1 / COMPRESSORE 1	WRL	ROOM LIGHT CABLE / CAVO LUCE CELLA
C.S.R.	COMPRESSOR STARTING KIT/KIT AVVIAMENTO COMPRESSORE	WDS	DOOR SWITCH CABLE / CAVO MICRO PORTA
CF1	CONDENSER FAN 1 / VENTOLA CONDENSATORE 1		
CP1	CONDENSER FAN1 CAPACITOR / CONDENSATORE VENTOLA 1 CAPACITA'		
CP3	EVAPORATOR FAN1 CAPACITOR / EVAPORATORE VENTOLA 1 CAPACITA'		
CP4	EVAPORATOR FAN2 CAPACITOR / EVAPORATORE VENTOLA 2 CAPACITA'		
DSV1	DEFROST SOLENOID VALVE 1 / VALVOLA SOLENOIDE DI SABRINAMENTO 1		
EDH	DOOR HEATER / RESISTENZA PORTA		
EF1	EVAPORATOR FAN 1 / VENTOLA EVAPORATORE 1		
EF2	EVAPORATOR FAN 2 / VENTOLA EVAPORATORE 2		
F1C	COMPRESSOR1 FUSE / FUSIBILE COMPRESSORE1		
F1A	AUXILIARY FUSE / FUSIBILE AUSILIARIO		
F1E	CONTROL UNIT / UNITA' DI CONTROLLO		
HPS/1	HIGH PRESSURE SWITCH 1 / PRESSOSTATO ALTA PRESSIONE 1		
HMI	HUMAN MACHINE INTERFACE		
K12C	COMPRESSOR 1 RELAY / RELE' COMPRESSORE 1		
KHP	HIGH PRESSURE SWITCH RELAY / RELE' PRESSOSTATO ALTA PRESSIONE		
MCR	MAN IN COLD ROOM ALARM / ALLARME UOMO IN CELLA		
RSV1	REFRIG. SOLENOID VALVE 1 / REFRIGER. VALVOLA SOLENOIDE 1		
RL	ROOM LIGHT (OPTIONAL) / LUCE CELLA (OPZIONALE)		
RDS	ROOM DOOR SWITCH / MICRO PORTA (BY-CLIENT)		
TH1	AMBIENT PROBE / SONDA AMBIENTE		
TH2	DEFROST PROBE / SONDA SBRINAMENTO		
TH3	CONDENSER PROBE / SONDA CONDENSATORE		
W1S	SUPPLY CABLE / CAVO DI ALIMENTAZIONE		
W1C	COMPRESSOR 1 CABLE / CAVO COMPRESSORE 1		

ELEPCPS0101

2.5. Schéma frigo



LEGEND	
Label	Description
C1	Compressor
CF1	Condenser fan
DSV1	Defrost solenoid valve
EF1 - EF2	Evaporator fan
HPS/1	High pressure switch
RSV1	Refrigerant solenoid valve
Th1	Cold room temperature probe
Th2	Defrost temperature probe
TXV1	Thermostatic expansion valve

3D154478



## 3. Device specifications

### 3.1. MPS3112YA11A

MPS3112YA11A				
Unit general specification	Unit	Model		MPS3112YA11A
		Type		MB
	Capacity range			3112
	Nominal Capacity	EN13215	Cooling (TCR = 0°C / Tamb = 32°C)	kW 1,96
			Freezing (TCR = -20°C / Tamb = 32°C)	kW
		EN17432	Cooling (TCR = 0°C / Tamb = 32°C)	kW 1,60
			Freezing (TCR = -20°C / Tamb = 32°C)	kW
	Nominal Capacity	EN13215	Cooling (TCR = 0°C / Tamb = 32°C)	kW
			Freezing (TCR = -20°C / Tamb = 32°C)	kW
		EN17432	Cooling (TCR = 0°C / Tamb = 32°C)	kW
			Freezing (TCR = -20°C / Tamb = 32°C)	kW
	Cold room volume	Cooling (TCR = 0°C / Tamb = 32°C / 100 mm)		l 0,0
		Freezing (TCR = -20°C / Tamb = 32°C / 100 mm)		l
	Power input	EN13215	Cooling (TCR = 0°C / Tamb = 32°C)	kW 1,32
			Freezing (TCR = -20°C / Tamb = 32°C)	kW
		EN17432	Cooling (TCR = 0°C / Tamb = 32°C)	kW 1,37
			Freezing (TCR = -20°C / Tamb = 32°C)	kW
	Power input	Max.		kW
Refrigerant	Refrigerant	Type		R290
		GWP		3
		Circuits	Quantity	1
		Charge		kg 15,0
Operation envelope	Operation range	Cold room temperature	Min.	°C -5,0
			Max.	°C 10,0
		Ambient temperature	Min.	°C 5,0
			Max.	°C 45,0
Compressor	Compressor circuit 1	Compressor	Type	Hermetic reciprocating
		Model		
		Swept volume		l/s
		Output		
		Starting method		ON/OFF

	Compressor circuit 2	Compressor	Type		
		Model			
		Swept volume		l/s	
		Output			
		Starting method			
	Compressor circuit 3	Compressor	Type		
		Model			
		Swept volume		l/s	
		Output			
		Starting method			
Condenser/Evaporator	Condenser	Material			
		Treatment			
		Fan number			
		Air flow		l/s	258,3
	Evaporator	Material			
		Treatment			
		Fan number			
		Air flow		l/s	319,4
		Air throw ( According to CECOMAF GT 6-001 (final velocity = 0,25 m/s)		m	5,0
		Defrost			Hot gas
Unit layout	Casing	Colour			White
		Material			pre-painted metal sheet.
		IP calss			IPX0
	Dimensions	Unit	Height	mm	850
			Width	mm	1010
			Depth	mm	650
		Packed unit	Height	mm	1082
			Width	mm	1040
			Depth	mm	684
	Weight	Unit		kg	87.6
		Packed unit		kg	110.1
PED	PED	Category		l	
Installation	Characteristics of the hole where to accommodate the units (straddle installation)	Height		mm	145
		Width		mm	40
	Characteristics of the hole where to accommodate the units (through the wall installation)	Height		mm	335
		Width		mm	585
Sound	Sound pressure level	Nom. (According to UNI EN ISO 3746)		dBA	47.5
Electrical data	Rated input	For MT (Medium Temperature) Operation.	A		6.86
		For LT (Low Temperature) Operation.	A		
	Power supply	Peak current unit		A	
		Max current unit		A	9.12
		Minimum circuit amps (MCA)		A	
		Maximum fuse amps (MFA)		A	10,0
		Voltage range	Max.		250
			Min.		207
		Voltage			230
		Phase			1N~
		Frequency			50

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## 4. Spécifications

### Général

To increase the efficiency of the system, please group all the cabinets with the same operating condition together, because it is the refrigerated cabinet or evaporator with the lowest evaporation temperature that will determine the evaporation temperature of the outdoor unit.

### CVP

- Il est important de charger le Conveni Pack avec la plus grande charge frigorifique pour maximiser la récupération de la chaleur.
- La capacité de climatisation est donnée à une température ambiante du magasin de 22°C en hiver et 20°C en été, aux conditions de la température extérieure.
- La capacité de climatisation ainsi que la capacité de chauffage délivrée par les unités intérieures seront plus élevés lorsque le ratio de capacité intérieure maximale est utilisé.

### ZEAS

- Aucune unité intérieure de climatisation ne peut être connectée à une unité de ZEAS.