



PM series +4°C
Morgue and
Mortuary chambers

(picture of cod. 10486, PM2413 TN/9S with optional glass portholes installed)

The PM series are +4°C refrigerated indoor chambers for bodies storage. They are available from 1 to 12 bodies.

Main features of PM chambers

STANDARD WORKING TEMPERATURE:

TN: -0°C / 10°C

FRAME

Zinc steel plate main frame made of white pre-painted prefabricated panels with grey service doors.

Inner floor with the same features as the panels and coated internally with 18/18 AISI 304 stainless stiff steel, reinforced for inner loads.

Air-condensation water's draining through suction drain.

Frontal service doors of 80W x 70H cm for superimposed stretchers' collection, equipped with key lock and with net opening of 70W x 60H cm.

Anti-mist electric resistances on the door frame.

Odorless rubber gaskets.

Telescopic sliding stretchers in 18/18 AISI 304 stainless steel with rubber wheels for an easy and silent movement.

THERMAL INSULATION

By "sandwich technique" with high density expanse – injected polyurethane foam: insulation size 80 mm.

COOLING SYSTEM:

By totally sealed compressors located in the upper part of the chambers equipped with air condensing unit.

Standard features:

- Hermetic compressor 230 V +6% / -10% / 1 / 50 Hz or Semi-Hermetic compressor 400 V +6% / -10% / 3 / 50 Hz + N + G (available upon request others voltages)
- Air-condenser.
- Internal evaporator air ventilated.

DEFROSTING

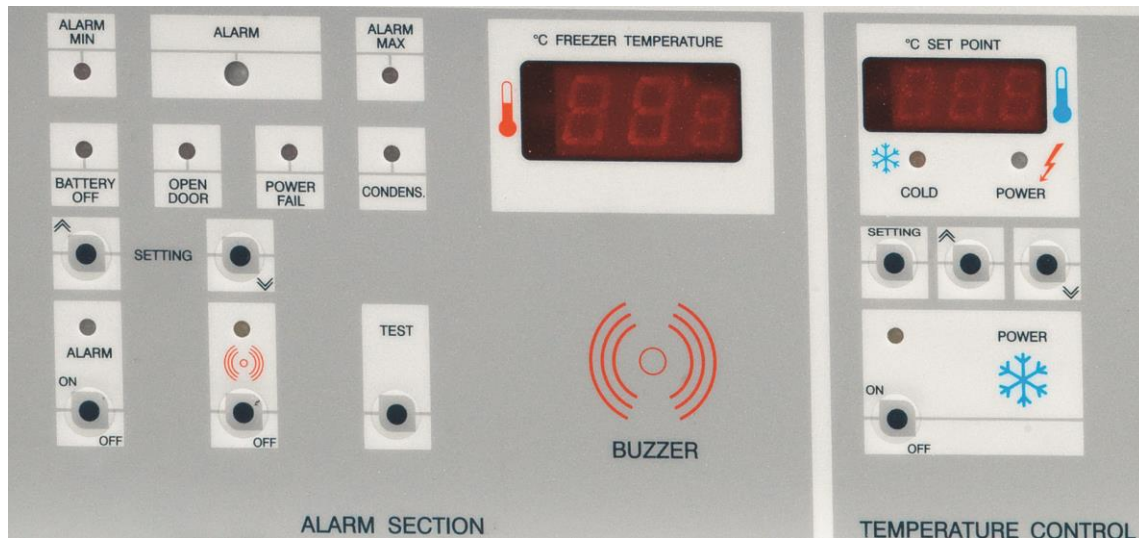
Can be automatic or manual with warning light and switch located on the controls panel: water from defrosting is automatically evaporated.

REFRIGERANT

Standard R134a, allowed by the Montreal Convention and accepted as "environment friend gas" under the London amendment too.

CONTROLLER

PM' controls is performed by the E2003 microprocessor controller



Two independent sections:

1. Temperature control and regulation;
2. Alarm system handling.

Control panel is equipped with the following functions:

- ON/OFF key to switch the instrument on and off. => "ON-OFF" LED
- INTERNAL LIGHT: key to switch on the internal light. => "INTERNAL LIGHT" LED
- MANUAL DEFROSTING: key to switch on defrosting cycle manually. => "MANUAL DEFROSTING" LED
- Exercise temperature setting.
- ON/OFF electric alarm system.
- LEDs alarm system intervention (min/max temperature).
- Buzzer OFF switch.
- TEST switch for alarm system.
- ON/OFF alarm system (hidden switch).
- LEDs for cooling phase mode ON (compressor working).
- LEDs for network presence.
- Digital display for inner temperature.
- LEDs for general alarm condition.
- LEDs for battery low-breakdown.
- LEDs for lack of network.
- Digital display for temperature setting.
- Alarm codes in case of T control probes or defrost system breakdown.

Alarms:

Visual and acoustic alarms for:

- Lack of electric energy.
- Max/min inner temperature (adjustable).
- Low battery or battery failure.
- Memory full
- Remote alarms with clean contact with max voltage 2 A /250 Volts
- Alarm codes in case of probes alarm T probe breakdown.

The system is automatically power back-upped by a 12-Volt accumulator self-recharging.

ORDERING INFORMATION AND AVAILABLE MODELS

Code 10472 – PM 1201 TN/1S

Bodies capacity: *1 with length translation*

Net sizes & weight

- External: 900W x 2260D x 1360H mm
- Internal: 740W x 2100D x 1200H mm
- Weight 245 kg

APPROX shipping sizes & weights: cm 250x150x170 h kg 250/400 (in wooden cage)

Mean energy consumption about 0.57 KW
Voltage 208 – 252 VAC, 50 Hz (60Hz optional)(115VAC 60hz optional)
Amperage 5A
Noise level <55 dB

OPTIONAL stainless steel executions for [code 10472 – PM 1201 TN/1S:](#)

Code	Description
10504	Stainless steel internal execution
11101	Stainless steel external execution

Code 10474 – PM 2003 TN/2S

Bodies capacity: *2, stacked with length translation*

Net sizes & weight

- External: 900W x 2260D x 2030H mm
- Internal: 740W x 2100D x 1870H mm
- Weight 335 kg

APPROX shipping sizes & weights: cm 250x150x210 h kg 350/550 (in wooden cage)

Mean energy consumption about 0.6 KW
Voltage 208 – 252 VAC, 50 Hz (60Hz optional)(115VAC 60hz optional)
Amperage 5.5A
Noise level <55 dB

OPTIONAL stainless steel executions for [code 10474 – PM 2003 TN/2S:](#)

Code	Description
10505	Stainless steel internal execution
11102	Stainless steel external execution

Code 10490 – PM 2102 TN/2S

Bodies capacity: *2, stacked with side translation*

Net sizes & weight

- External: 2360W x 980D x 2410H mm
- Internal: 2200W x 740D x 1900H mm
- Weight 400 kg

APPROX shipping sizes & weights: cm 260x170x200 h kg 500/700 (in wooden cage)

Mean energy consumption about 0.57 KW
Voltage 208 – 252 VAC, 50 Hz (60Hz optional)(115VAC 60hz optional)
Amperage 5A
Noise level <55 dB

OPTIONAL stainless steel executions for [code 10490 – PM 2102 TN/2S:](#)

Available on request only

Code 10482 – PM 2405 TN/3S

Bodies capacity: *3, stacked with length translation*

Net sizes & weight

- External: 900W x 2260D x 2730H mm
- Internal: 740W x 2100D x 2570H mm
- Weight 440 kg

APPROX shipping sizes & weights: cm 280x150x210 h kg 440/640 (in wooden cage)

Mean energy consumption about 0.65 KW
Voltage 208 – 252 VAC, 50 Hz (60Hz optional)(115VAC 60hz optional)
Amperage 6A
Noise level <55 dB

OPTIONAL stainless steel executions for [code 10482 – PM 2405 TN/3S:](#)

Code	Description
10506	Stainless steel internal execution
11103	Stainless steel external execution

Code 10476 – PM 2006 TN/4S

Bodies capacity: *4, stacked 2 x 2 with length translation*

Net sizes & weight

- External: 1800W x 2260D x 2030H mm
- Internal: 1640W x 2100D x 1870H mm
- Weight 550 kg

APPROX shipping sizes & weights: cm 250x210x220 h kg 550/780 (in wooden cage)

Mean energy consumption	about 0.65 KW
Voltage	208 – 252 VAC, 50 Hz (60Hz optional)(115VAC 60hz optional)
Amperage	6.5A
Noise level	<55 dB

OPTIONAL stainless steel executions for [code 10476 – PM 2006 TN/4S:](#)

Code	Description
10507	Stainless steel internal execution
11104	Stainless steel external execution

Code 10478 – PM 2010 TN/6S

Bodies capacity: *6, stacked 2H x 3W with length translation*

Net sizes & weight

- External: 2700W x 2260D x 2030H mm
- Internal: 2540W x 2100D x 1870H mm
- Weight 716 kg

APPROX shipping sizes & weights: 2 packs
1st of cm 290x210x170 h kg 400/600(in wooden cage)
2nd of cm 210x150x160 h kg 350/500 (ion wooden cage)

Mean energy consumption	about 0.8 KW
Voltage	208 – 252 VAC, 50 Hz (60Hz optional)(115VAC 60hz optional)
Amperage	7A
Noise level	<55 dB

OPTIONAL stainless steel executions for [code 10478 – PM 2010 TN/6S:](#)

Code	Description
10509	Stainless steel internal execution
11106	Stainless steel external execution

Code 10484 – PM 2407 TN/6S

Bodies capacity: *6, stacked 3H x 2W with length translation*

Net sizes & weight

- External: 1800W x 2260D x 2730H mm
- Internal: 1640W x 2100D x 2570H mm
- Weight 688 kg

APPROX shipping sizes & weights: cm 280x220x225h kg 730/1000 (in wooden cage)

Mean energy consumption	about 0.8 KW
Voltage	208 – 252 VAC, 50 Hz (60Hz optional)(115VAC 60hz optional)
Amperage	7A
Noise level	<55 dB

OPTIONAL stainless steel executions for [code 10484 – PM 2407 TN/6S:](#)

Code	Description
10508	Stainless steel internal execution
11105	Stainless steel external execution

Code 10480 – PM 2014 TN/8S

Bodies capacity: *8, stacked 2H x 4W with length translation*

Net sizes & weight

- External: 3600W x 2260D x 2150H mm
- Internal: 3440W x 2100D x 1870H mm
- Weight 960 kg

APPROX shipping sizes & weights: 2 packs
1st of cm 250x210x200 h kg 650/880 (in wooden cage)
2nd of cm 210x210x170 h kg 300/500 (in wooden cage)

Mean energy consumption about 1 KW
Voltage 376 – 440 VAC, 50 Hz (60Hz optional)
Amperage 4A
Noise level <55 db

OPTIONAL stainless steel executions for [code 10480 – PM 2014 TN/8S:](#)

Available on request only

Code 10486 – PM 2413 TN/9S

Bodies capacity: *9, stacked 3H x 3W with length translation*

Net sizes & weight

- External: 2700W x 2260D x 2850H mm
- Internal: 2540W x 2100D x 2570H mm
- Weight 983 kg

APPROX shipping sizes & weights: 2 packs
1st of cm 290x210x190 h kg 750/1000 (in wooden cage)
2nd of cm 280x150x160 h kg 250/430 (in wooden cage)

Mean energy consumption about 1 KW
Voltage 376 – 440 VAC, 50 Hz (60Hz optional)
Amperage 4A
Noise level <55 db

OPTIONAL stainless steel executions for [code 10486 – PM 2413 TN/9S:](#)

Available on request only

Code 10830 – PM 2020 TN/10S

Bodies capacity: *10, stacked 2H x 5W with length translation*

Net sizes & weight

- External: 4500W x 2260D x 2550H mm
- Internal: 4340W x 2100D x 1870H mm
- Weight 1200 kg

APPROX shipping sizes & weights: 2 packs
1st of cm 250x210x190 h kg 900/1200 (in wooden cage)
2nd of cm 250x210x200 h kg 340/640 (in wooden cage)

Mean energy consumption about 1.1 KW
Voltage 376 – 440 VAC, 50 Hz (60Hz optional)
Amperage 3,8A
Noise level <55 db

OPTIONAL stainless steel executions for code 10830 – PM 2020 TN/10S:

Available on request only

Code 10488 – PM 2416 TN/12S

Bodies capacity: *12, stacked 3H x 4W with length translation*

Net sizes & weight

- External: 3600W x 2260D x 2900H mm
- Internal: 3440W x 2100D x 2570H mm
- Weight 1260 kg

APPROX shipping sizes & weights: 2 packs
1st of cm 250x210x200 h kg 900/1130 (in wooden cage)
2nd of cm 280x210x190 h kg 480/680 (in wooden cage)

Mean energy consumption about 1.2 KW
Voltage 376 – 440 VAC, 50 Hz (60Hz optional)
Amperage 5A
Noise level <55 db

OPTIONAL stainless steel executions for code 10488 – PM 2416 TN/12S:

Available on request only

OPTIONAL ACCESSORIES APPLICABLE TO ALL CHAMBERS OF PM SERIES

Code	Description
11350	7-days temperature chart recorder (pen + diagrams for 1 year)
12279	Kit for chart recorder (100 graph diagram and 2 pens)
10517	Porthole glass for one door (to be factory installed, buy as many as the doors of the chambers)
10518	Lateral service door 70 x 180H cm

NOTE FOR CARTS & LIFTERS

ALS offer some optional carts, lifters and other accessories suitable to be used with any ALS mortuary chamber and in general for morgue applications. For more detailed information, please watch the specific data sheets “Data sheets of carts & body lifters_Rev xx”

OTHERS TECHNICAL DATA

Product Name :	PM series – morgue chambers for Bodies storage
Manufacturer:	Angelantoni Life Science S.r.L. Loc. Cimacolle, 464 06056 Massa Martana (PG) - Italy
Ambient conditions of use:	Temperature: +10° ~ +30° C Relative humidity: 30 ~ 80% without condensation
Stocking condition:	Temperature: +0° ~ + 40° C Relative humidity: 20 ~ 80% without condensation
Alarms types:	Acoustic and Optical
In case of power black-out:	Compressors OFF (Controller is powered for 24-48h by a battery back-up)