

AIR CONDITIONERS FOR COMMAND AND CONTROL PANELS

type **Pxs 4302 - 4303**

PXS4302_XXX_VV_A - PXS4303_XXX_VV_A

XXX ... = electric variant, ---- VV ... = paint variant,

A = standard version, installation outside the cabinet

accessory for built-in, partial or total: carter PAI100320_PPP_VV

PPP ... = depth variant (mm) ---- VV = painting color variant

External front view -
faced at the environment

Back view - facing at
the enclosure



Regenerable filter
in aluminum mesh



9-pole Wago connector
for electrical connections

Technical description

- Installation on side wall or door: outside the switchboard, semi-recessed or completely recessed in the cabinet.
- The maximum recess depth can be 250 mm.
- Completely recessed installation requires the PAI 1003250xx subframe.
- Semi-recessed installation requires the PAI 1003150xx subframe.
- Optional upon request: complete carpentry in AISI304 or AISI316LL stainless steel
- Power supply voltage 220-240V 50/60 Hz single-phase or 400V 50Hz / 460V 60Hz 3ph
- Connection to the mains via Wago 9-pole 32A quick connector
- Digital electronic thermostat with microprocessor with 1 digital input (connected to the door interlock microswitches) stops cooling if the doors are opened, and integrated alarm functions: faulty probe, incorrect connection, over range.
- Block pressure switch for high pressure.
- Contact for remote signaling of high pressure blockage alarm (dirty filter and/or condenser, faulty fan).
- Tray for the evaporation of the condensate in the ventilation air of the condenser.
- Safety drains for any excess condensate production.
- Lockout relay with voltage-free contact for remote alarm signalling: self-latching relay, a momentary opening of the power supply line to the air conditioner is required to reset.
- Speed of the Condenser fan electronically controlled to adjust the air consumption to the actual need of the system
- R 134a refrigerant fluid without CFC.
- Installation kit complete with studs, washers, nuts, sealing gasket and lifting eyebolts

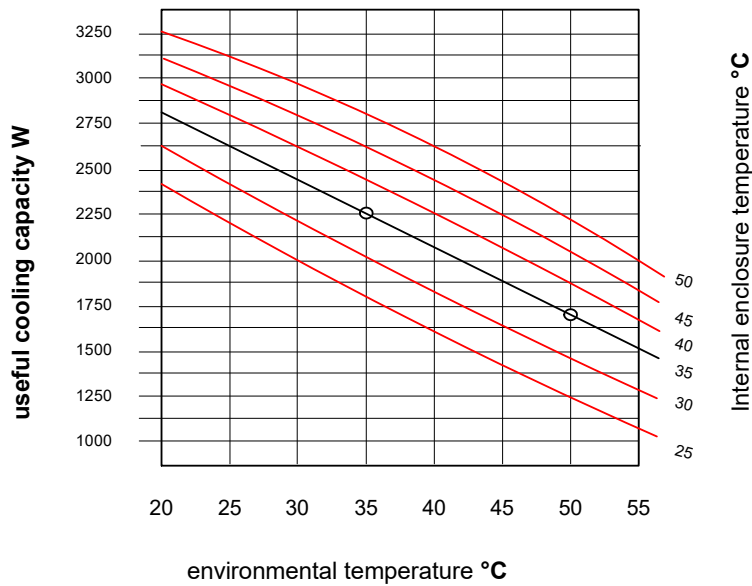
Cooling unit for command and control boards – models **Pxs 4302 - 4303**

TECHNICAL FEATURES

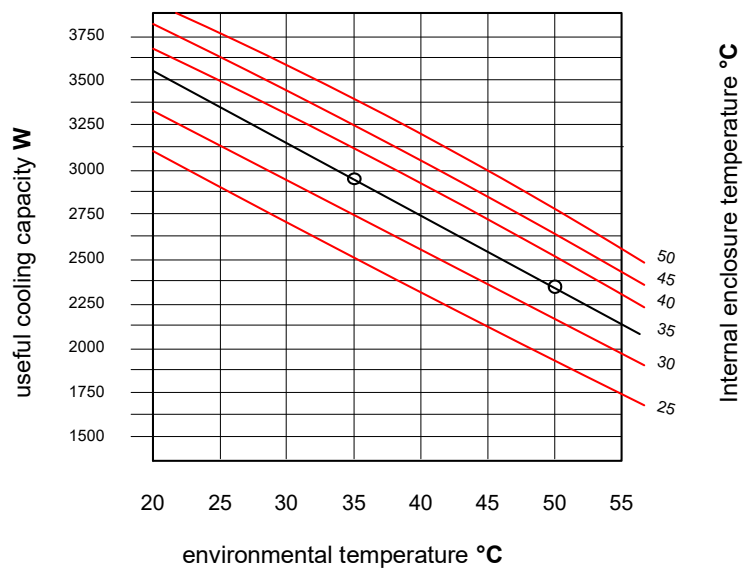
ITEM CODE	Pxs	4302 H31 ex 4302M	4303 H31 ex 4303M	4302 N33 ex 4302/T	4303 N33 ex 4303/S
COOLING POWER					
L35 - L35 (50/60)	W	2.250	2.920	2.250/2.480	2.920/ 3.160
L35 - L50 (50/60)	W	1.780	2.340	1.750/1.900	2.340/ 2.720
WORKING RANGE					
OPERATING AMBIENT TEMPERATURE	°C	-5 ~ +55			
TEMPERATURE IN THE CABINET	°C	25 ~ +45			
TENSION					
NOMINAL TENSION	V / Hz	220-240V 50Hz 1~		400/460V 50/60Hz 3~	
CURRENT					
NOMINAL CURRENT (FLA 50/60)	A	7	9	2,6/2.8	3,5 / 3,7
STARTING CURRENT (LRA 50/60)	A	26	37	13 / 15	18 / 18
ABSORBED POWER					
NOMINAL L35 - L35 (50/60)	W	1.300	1.800	1.300/1.600	1.800/1.920
MAXIMUM L35 - L50 (50/60)	W	1.580	2.260	1.560/1.920	2.260/ 2.420
REFRIGERANT					
TYPE	R	134a	134a	134a	134a
CAPACITY	g.	650	700	650	700
MAX PRESSURE ADMISSIBLE	kPa	2250	2250	2250	2250
IP PROTECTION DEGRE' - EN 60529					
INTERNAL CIRCUIT	IP	54			
EXTERNAL CIRCUIT	IP	34			
FREE MOUTH AIR FLOW					
INTERNAL CIRCUIT	mc/h	600			
EXTERNAL CIRCUIT	mc/h	1.200			
SOUND PRESSURE					
MAXIMUM	dB (A)	62			
NET WEIGHT					
ACCESSORIES NOT INCLUDED	Kg	59	59	63	63
COLOUR					
STANDARD	RAL	7035 (other colors available on request)			
OVERALL DIMENSIONS					
LENGTH	mm.	500			
DEPTH'	mm.	270			
HEIGHT	mm.	950			
INTERMITTENZA					
100 %					
SETTING					
INCORPORATED DIGITAL ELECTRONIC THERMOSTAT	Factory setting: setpoint = 35 °C – Δt =5k				

USEFUL COOLING CAPACITY DIAGRAMS - DIN 3168 (50 Hz)

Pxs 4302 Cooling unit



Pxs 4303 Cooling unit



Cooling unit for command and control boards – models **Pxs 4302 - 4303**

PXS4302XXXVV_A and PXS4303XXXVV_A - STANDARD VERSION

STANDARD EQUIPMENT - VARIANTS - ACCESSORIES

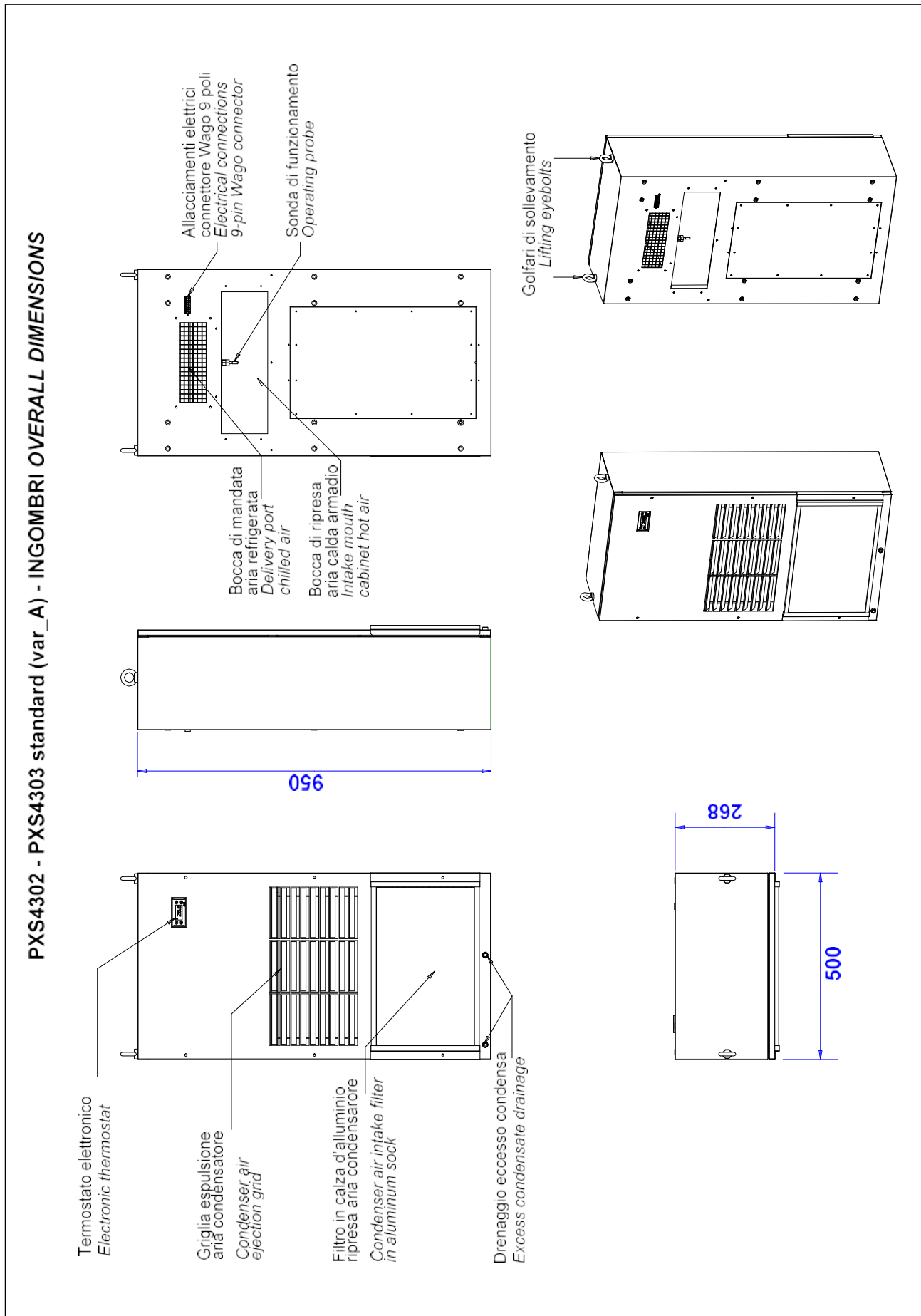
DESCRIPTION OF THE CODE AND OF THE VARIANTS						
Series	Model	Tension V	Frequency Hz	Phases ~	Painted or Stainless steel	Special executions
Pxs	4302	220–240 -- H	50/60 -- 3	Monofase -- 1	Ral 7035 – 07 Ral 5015 – 05	Standard -- A
	4303	400/460 -- N	50/60 – 3	Trifase -- 3	AISI304 2B - XX AISI316 SB - XX	
COMPLETE CODE OF ORDER e.g. Pxs 4302N3307A						
Pxs	4302	N	3	3	07	A

STANDARD EQUIPMENT PXS4302XXXVV_A and PXS4303XXXVV_A	
1. Installation, use and maintenance manual.	4. Condensate drain kit, consisting of
2. Installation kit, consisting of:	• automatic fittings,
• lifting eyebolts,	• drain pipes.
• studs nuts washers,	5. Test certificate.
• IP sealing gasket.	6. Warranty certificate.
3. Filter holder support for ambient air intake grid	7. Oil-proof filter mesh for ambient air intake grille

ACCESSORIES ON REQUEST	Item code
Counterframe for completely recessed installation (depth 250 mm)	PAI 1003250xx
Counterframe for semi-recessed installation (depth 150 mm)	PAI 1003150xx
Flange for completely recessed installation (depth 250 mm)	P 1003018xx

Cooling unit for command and control boards – models **Pxs 4302 - 4303**

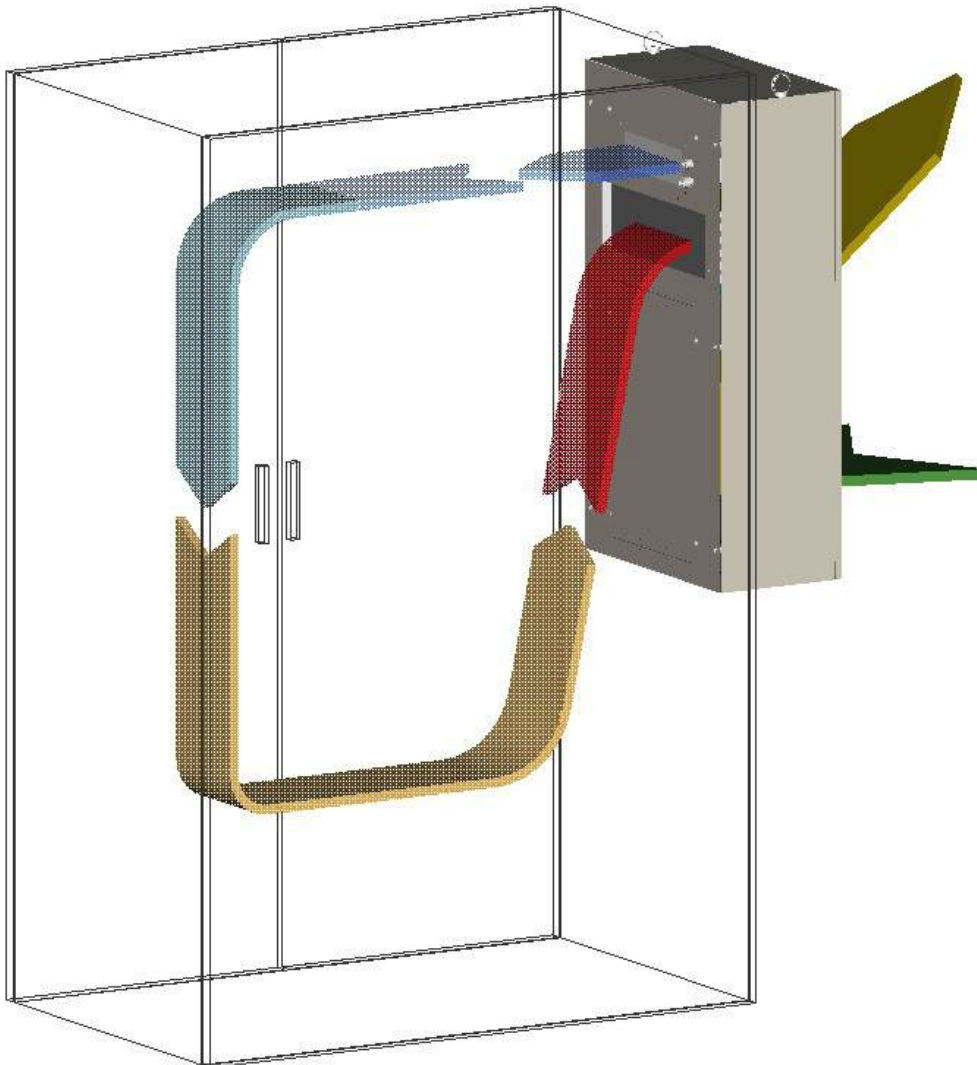
PXS4302XXXVV_A and PXS4303XXXVV_A STANDARD VERSION - OVERALL DIMENSIONS



VENTILATION FLOWS STANDARD VERSION (_A):

Especially in installations on the side of cabinet, the high position of the refrigerated air distribution mouth, thanks to the powerful delivery arrow, guarantees optimal temperature distribution inside the cabinet.

The automatic electronic regulation of the speed of the external fan guarantees the correct functioning of the unit in all different climates and allows you to reduce dust on the filters and heat exchange coils.



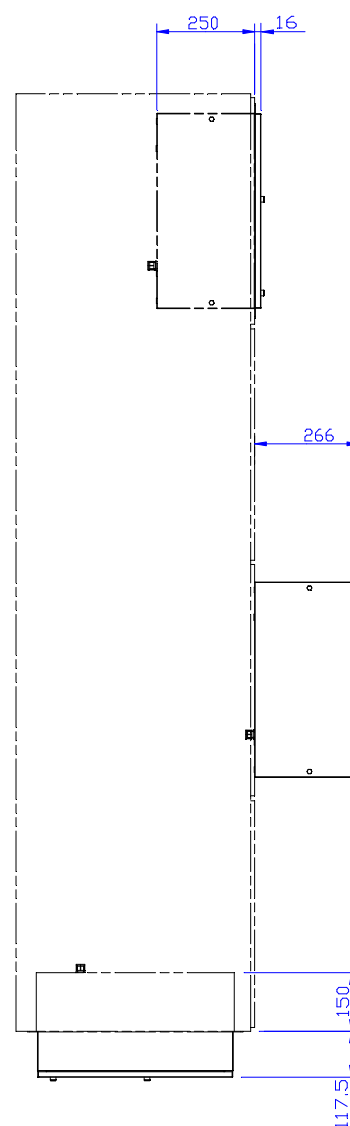
Cooling unit for command and control boards – models **Pxs 4302 - 4303**

VERSIONE STANDARD: PXS4302XXXVV_A and PXS4303XXXVV_A - INGOMBRI

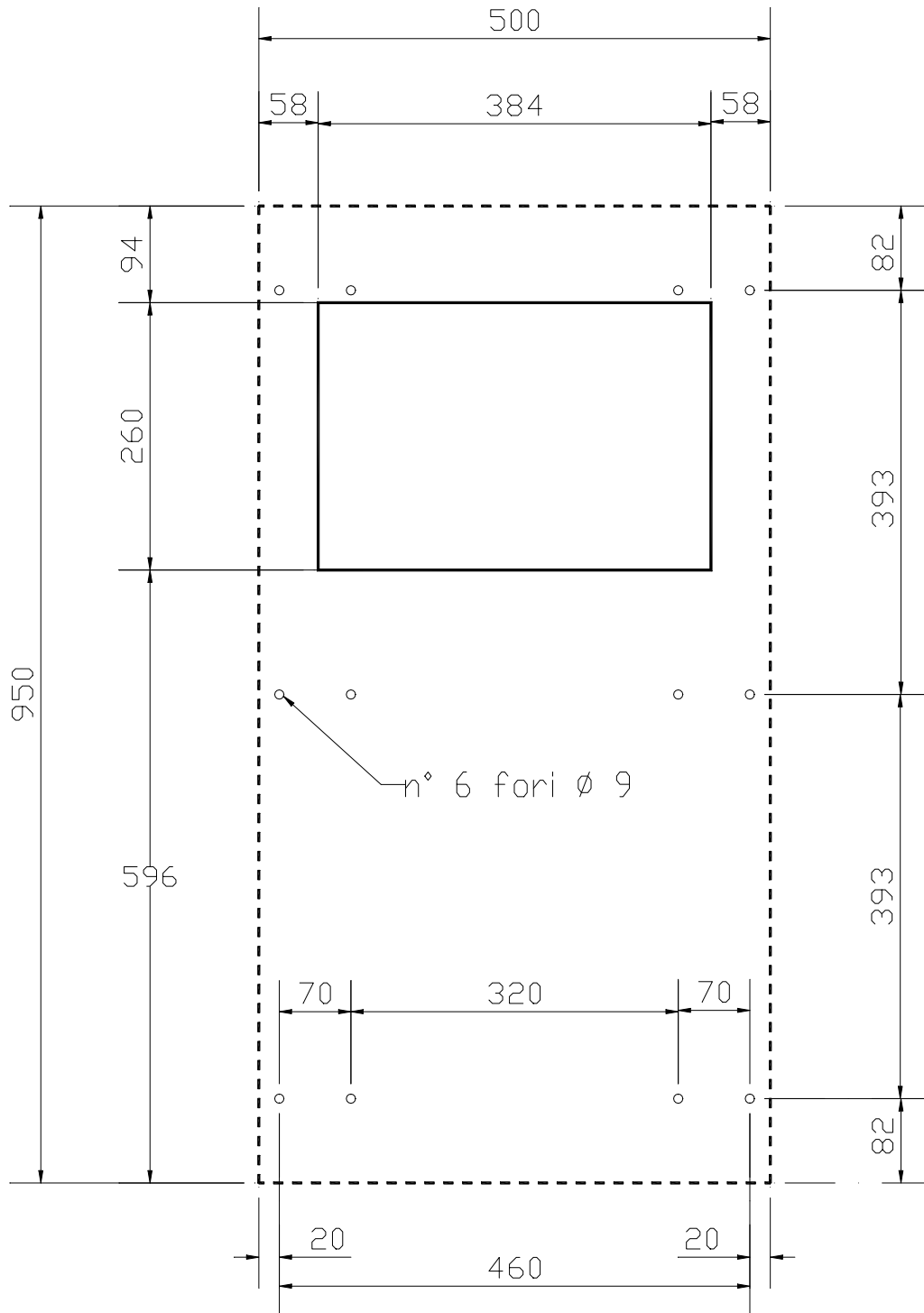
STANDARD MODELS: PXS4302XXXVV_A - PXS4303XXXVV_A

DIMENSIONS ACCORDING TO THE TYPE OF INSTALLATION

INSTALLATION TYPE	A	B	C	D	E
STANDARD: ALL EXTERIOR	270				
SEMI-BUILT-IN WITH COUNTERFRAME PAI 1003150		116 esterno	150 interno		
FULLY RECESSED WITH PAI 1003250 COUNTERFRAME				16 esterno	250 interno

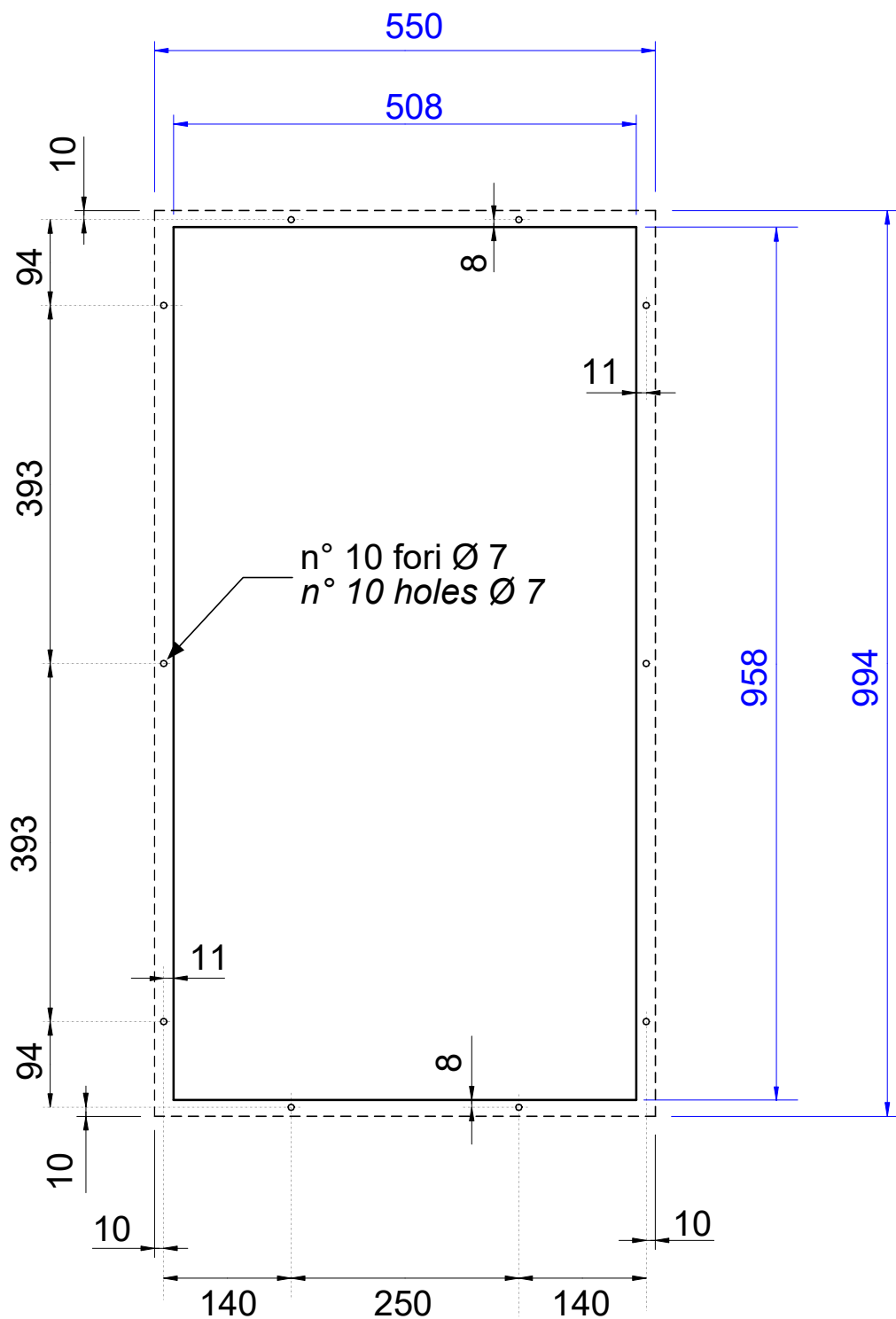


DRILLING TEMPLATE FOR EXTERNAL INSTALLATION



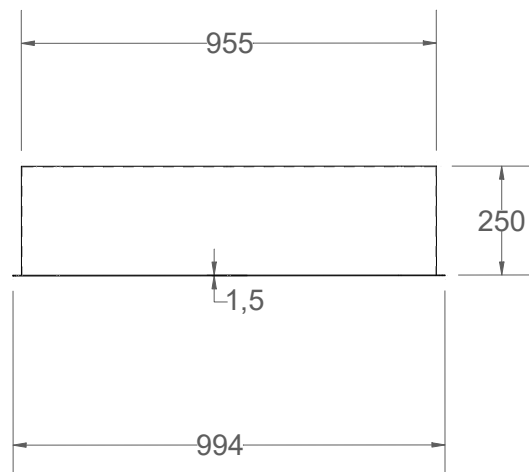
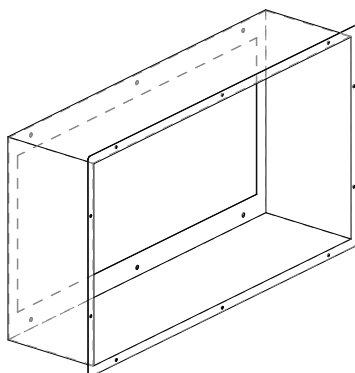
STANDARD VERSION PXS4302XXXVV_A and PXS4303XXXVV_A

Drilling template for built-in subframes PAI4303PPPVV
for partially or completely recessed installation
PPP (mm) = depth required - VV = painting required

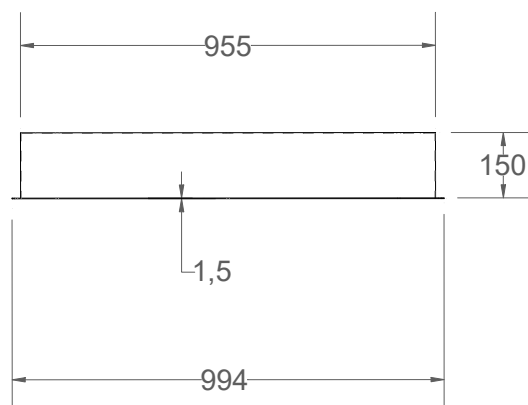
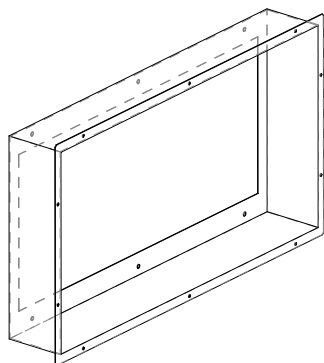


Pxs 4302 - 4303 Accessori per installazioni ad incasso

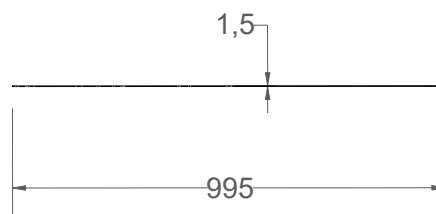
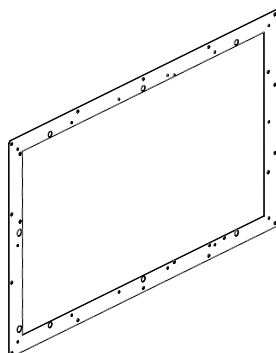
Controtelaio incasso
codice PAI 4303250



Controtelaio incasso
codice PAI 4303150



Flangia incasso
codice 100318



PXS4302_XXX_VV_C and **PXS4303_XXX_VV_C** variants suitable only for fully recessed installation

PXS4302_XXX_VV_C ----- **PXS4303_XXX_VV_C**

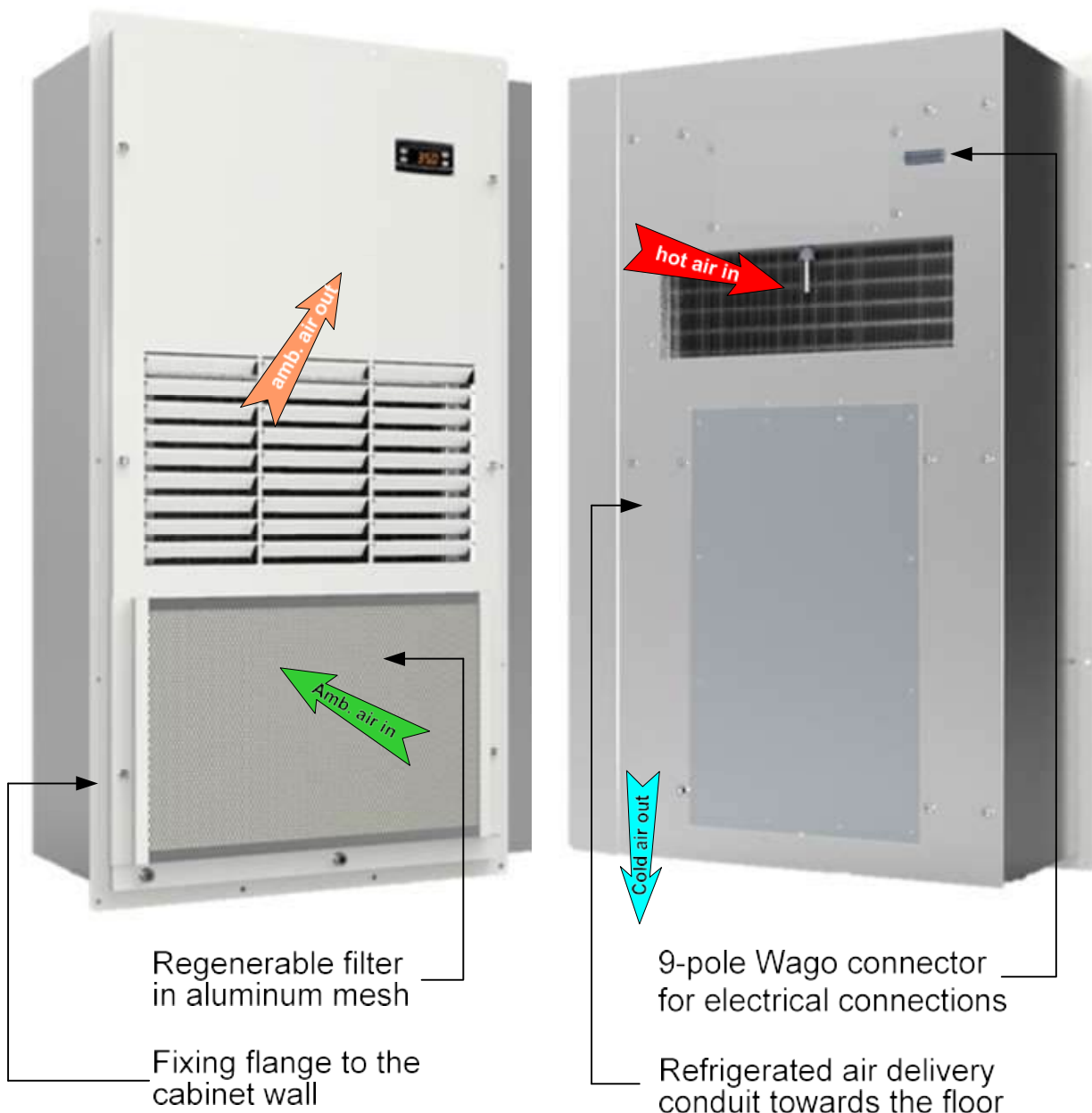
XXX ... = electric variant - VV...= painting variant

C= version only for fully recessed installation

Equipped, as standard, with a lateral delivery duct, to direct the flow of refrigerated air towards the floor

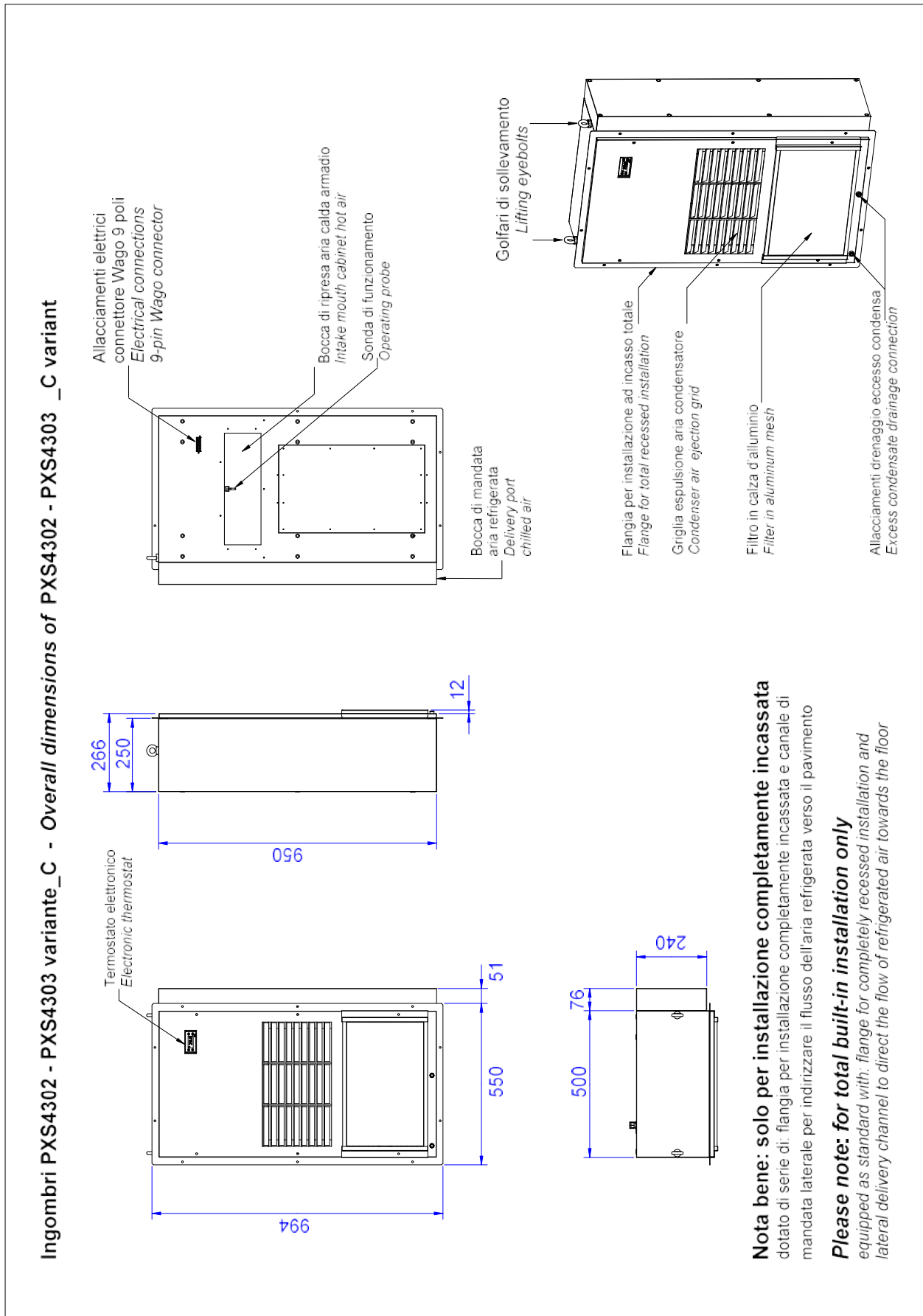
External front view -
faced at the environment

Back view - facing at
the enclosure



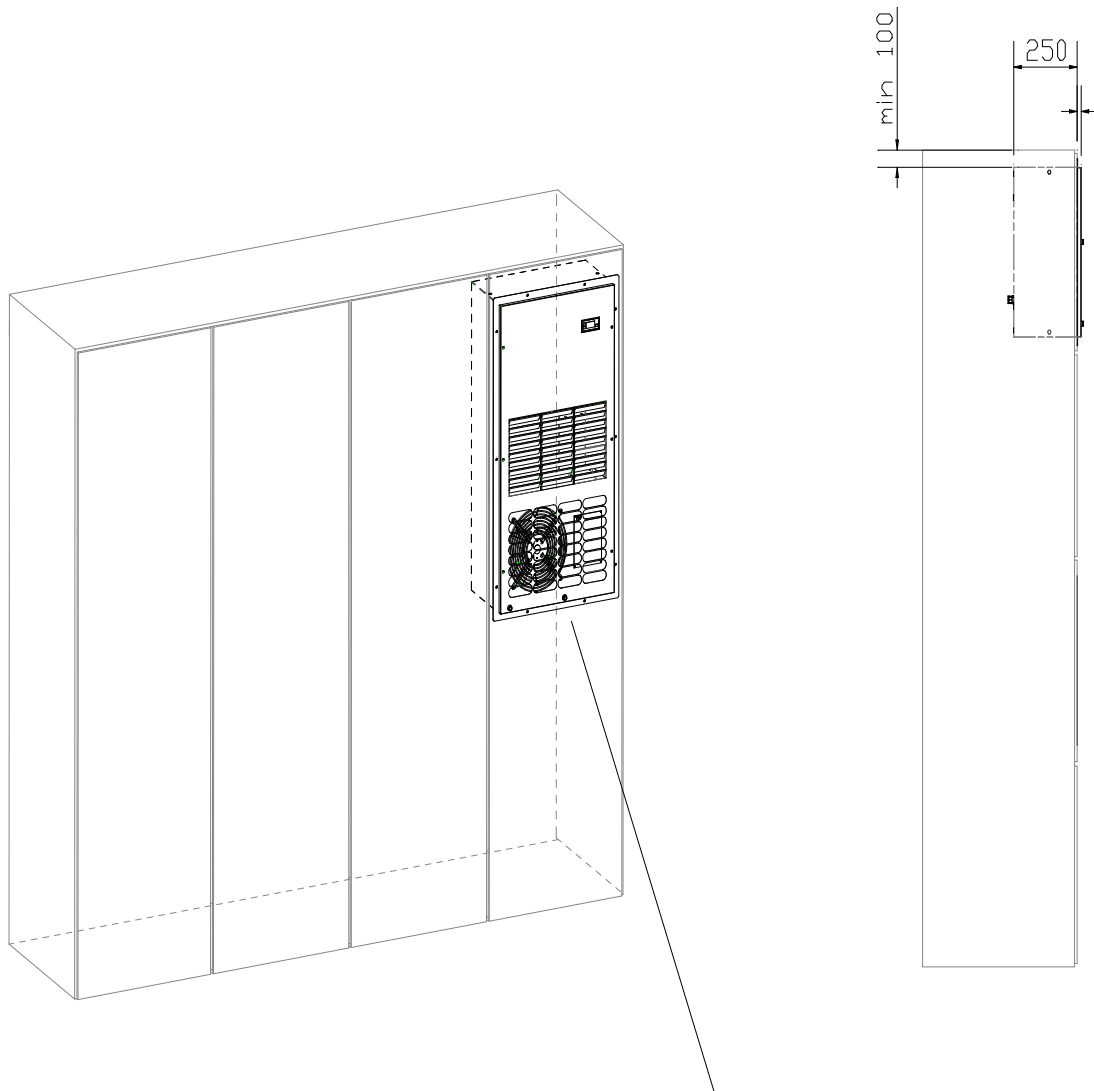
PXS4302 e PXS4303 VARIANT_C – OVERALL DIMENSIONS

standard equipmen includes the flange 100318xx and the delivery flashing P10033xx



PXS4302 e PXS4303 VARIANT_C
DIMENSIONS ACCORDING TO THE TYPE OF INSTALLATION

INSTALLAZIONE	A	B	C	D	E
Fully recessed with FLANGE 100318xx				16 esterno	250 interno

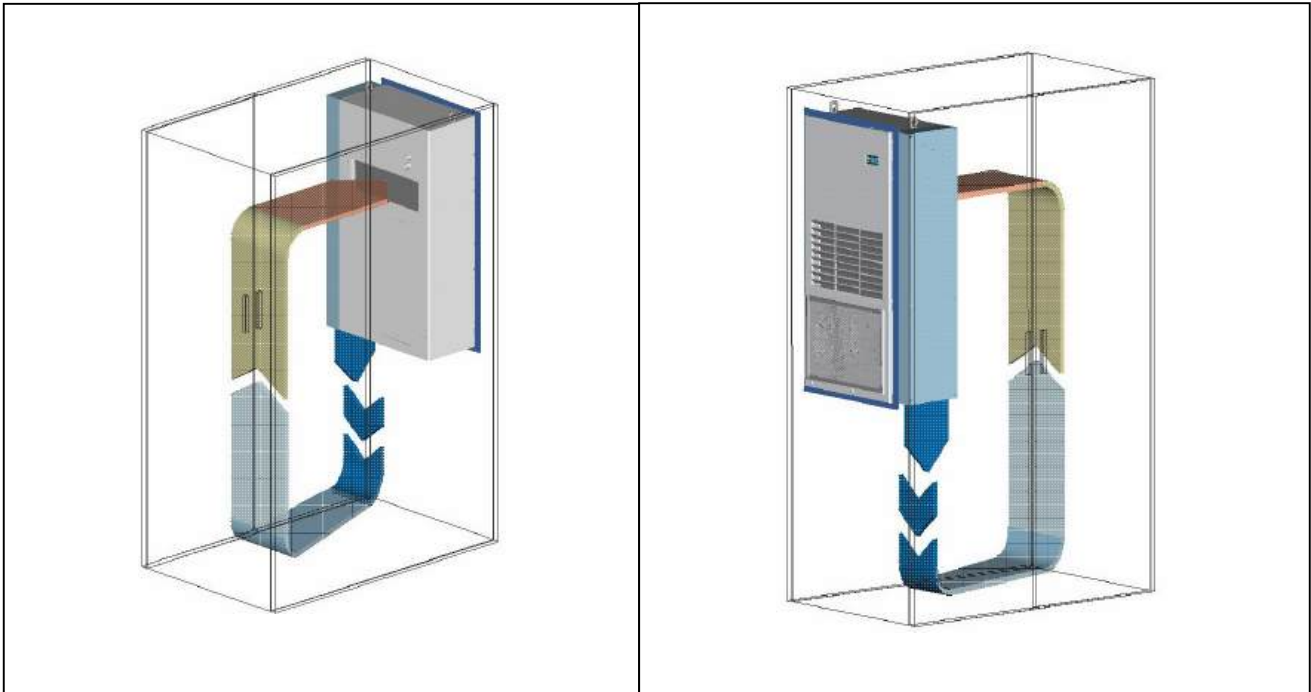


Installazione completamente
 incassata con flangia 100318

Cooling unit for command and control boards – models **Pxs 4302 - 4303**

FULLY RECESSED VERSIONS - Pxs_4302 and Pxs_4303 variant _C **VENTILATION FLOWS:**

The standard supply includes the flange for fixing to the wall and the side flashing to direct the flow of refrigerated air towards the floor of the cabinet



The fixing flange is supplied mounted on the air conditioner.

The refrigerated air delivery channel is supplied separate from the air conditioner.

After inserting the air conditioner into the window on the cabinet wall and fixing the flange to the wall, it is possible to mount the delivery channel on the side of the air conditioner.

Intake of the air to be cooled from above and delivery of the refrigerated air towards the floor.

PXS4302 and PXS4303 variants _C ORDERING CODE - STANDARD EQUIPMENT

DESCRIPTION OF THE CODE AND VARIANTS

Serie	Model	Voltage V	Frequency Hz	Phases ~	paint colour	variant
Pxs	4302 4303	220-240 -- H	50/60 -- 3	singlephase - 1	Ral 7035 – 07	variante _C
		400/460 -- N	50/60 – 3	threephase - 3	Ral 5015 – 05 AIS1316LL - XX	

COMPLETE ORDERING CODE: e.g. Pxs 4302N3307C

Pxs	4302	N	3	3	07	C
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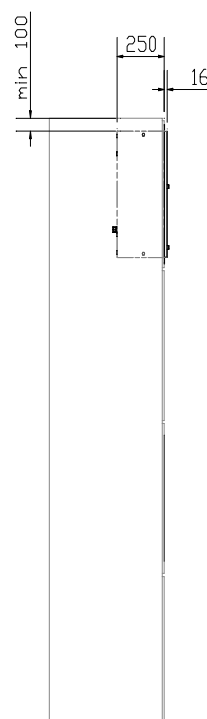
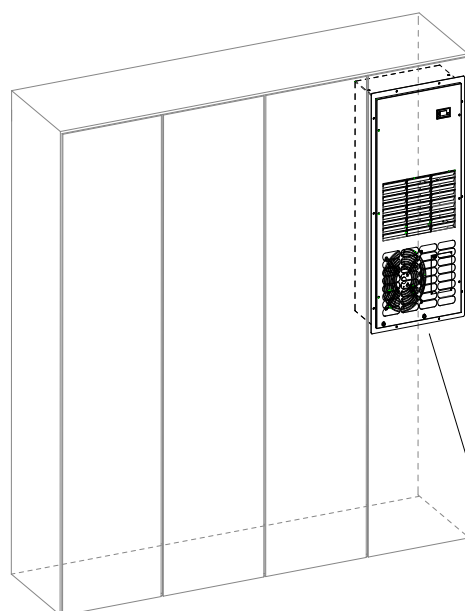
Cooling unit for command and control boards – models **Pxs 4302 - 4303**

STANDARD EQUIPMENT PXS4302XXXVV_C - PXS4303XXXVV_C	
1. Installation, use and maintenance manual.	3. Condensate drain kit, consisting of:
2. Installation kit, consisting of:	• automatic fittings,
• lifting eyebolts,	• drain pipes.
• studs nuts washers,	5. Test certificate.
• IP sealing gasket.	6. Warranty certificate.
3. Oil-proof filter media for ambient air intake grille	7. Flange for completely recessed installation

PXS4302 and PXS4303 variants _C – INSTALLATION ENGUMBRANCE

Pxs4302 e Pxs4303 _C variant

INSTALLATION ENGUMBRANCES	A	B	C	D	E
FULLLY RECESSED WITH FLANGE 100318				16 outside	250 inside



Installazione completamente
incassata con flangia 100318

Totally built-in versions - PXS4302 and PXS4303 variants _C

drilling template for installation with flange 100318xx

xx = code of the requested paint

