Panasonic

heating & cooling solutions

PACi NX Jet Air Stream

1. Energy-saving solution for year-round heating and cooling in large and high spaces

· High seasonal efficiency: ηs,c 250% in cooling and ηs,h 155% in heating (25kW model).

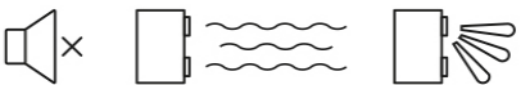
2. High air distribution for large spaces

· High air volume up to 5000m³/h
· Long maximum air throw distance of 30m

3. Optimal comfort with Smart Jet - self-directing nozzles

· Precise temperature control
· Preventing stratification and maintaining an ideal temperature exclusively in the occupied area

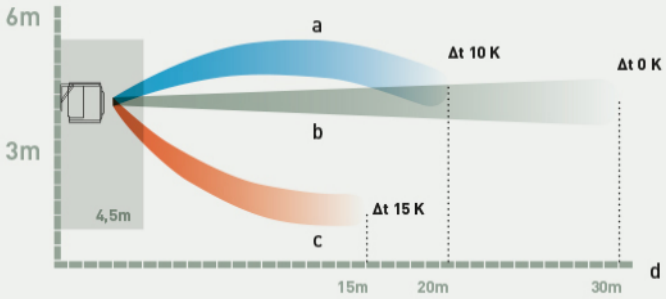
R32



For the large spaces that require high air distribution

Jet Air Stream: Perfect for large, high-ceiling spaces

Large spaces are often heated with boilers and unit heaters, which are inefficient, noisy, complex, and expensive fossil fuel systems that rarely offer summer cooling integration.
The Jet Air Stream provides an efficient and sustainable solution for year-round heating and cooling in large spaces. It ensures optimal user comfort, a quiet environment, and is much easier to install than other systems.

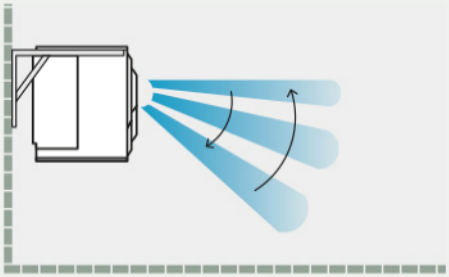


Long air flow distance

High air volume with a long air flow distance of up to 30m ensures optimal comfort for large spaces like warehouses and gyms.

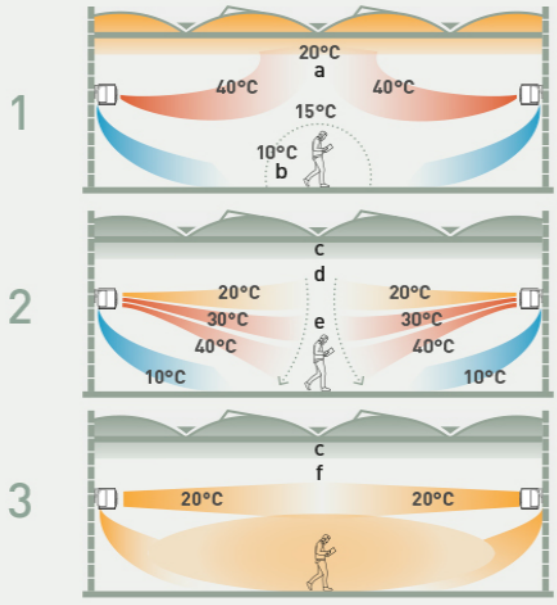
Minimum installation limit: 3m - Maximum installation limit: 6m

a: Throw during pre-cooling - b: Throw at setpoint - c: Throw during pre-heating - d: Maximum throw distance.



Smart Jet - self-directing nozzles

Jet Air Stream Smart models ensure optimal comfort by preventing heat loss. Nozzle movements adapt dynamically to incoming air temperature, preventing stratification and maintaining an ideal temperature exclusively in the occupied area.



Jet Air Stream Smart 3-step operation in heating

1. Pre-heating. Upon start-up, the Jet Air Stream Smart directs the nozzles horizontally, preventing not-yet-warm air from blowing on people.

2. Rapid heating. Once the air reaches the ideal temperature, power is maximised and the nozzles point downward, ensuring rapid heating of the occupied area.

3. Maintenance with air blade effect. Jet Air Stream Smart adjusts power once the desired temperature is reached. This aligns nozzles horizontally, creating an 'air blade' as a thermal barrier to optimise heat distribution and prevent upward dispersion.

a: Air stratification - b: Cold area around the worker - c: Volume not treated - d: Pre-heating - e: Rapid heating - f: Air blade effect.

In cooling mode, the nozzle operation logic is inverted until the setpoint is reached

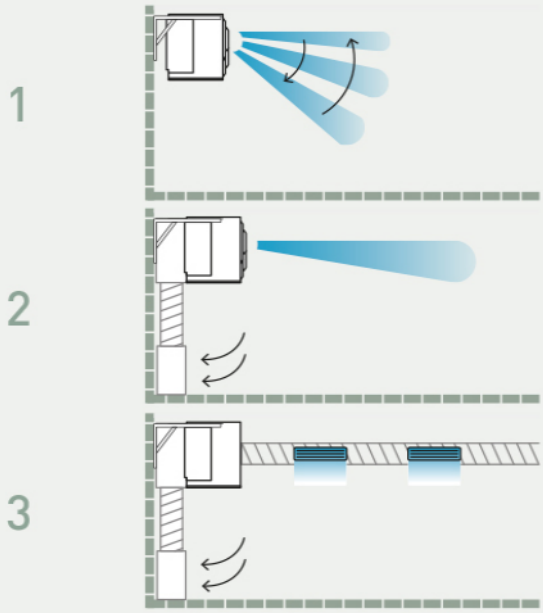
Product and accessories

Jet Air Stream: Available in three versions

1. Jet Air Stream Smart (Self-directing nozzles)
· Model P-VTVF140MC5-PE. Airflow: 2500m³/h. Compatible outdoor: U-140PZH4E5/8
· Model P-VTVF250MC5-PE. Airflow: 5000m³/h. Compatible outdoor: U-250PZH4E8

2. Jet Air Stream Standard (Manual nozzles)
· Model P-VTVF140NC5-PE. Airflow: 2500m³/h. Compatible outdoor: U-140PZH4E5/8
· Model P-VTVF250NC5-PE. Airflow: 5000m³/h. Compatible outdoor: U-250PZH4E8

3. Jet Air Stream Ducted (Ducted front panel)
· Model P-VTVF140PC5-PE. Airflow: 2500m³/h. Compatible outdoor: U-140PZH4E5/8
· Model P-VTVF250PC5-PE. Airflow: 5000m³/h. Compatible outdoor: U-250PZH4E8



Accessories

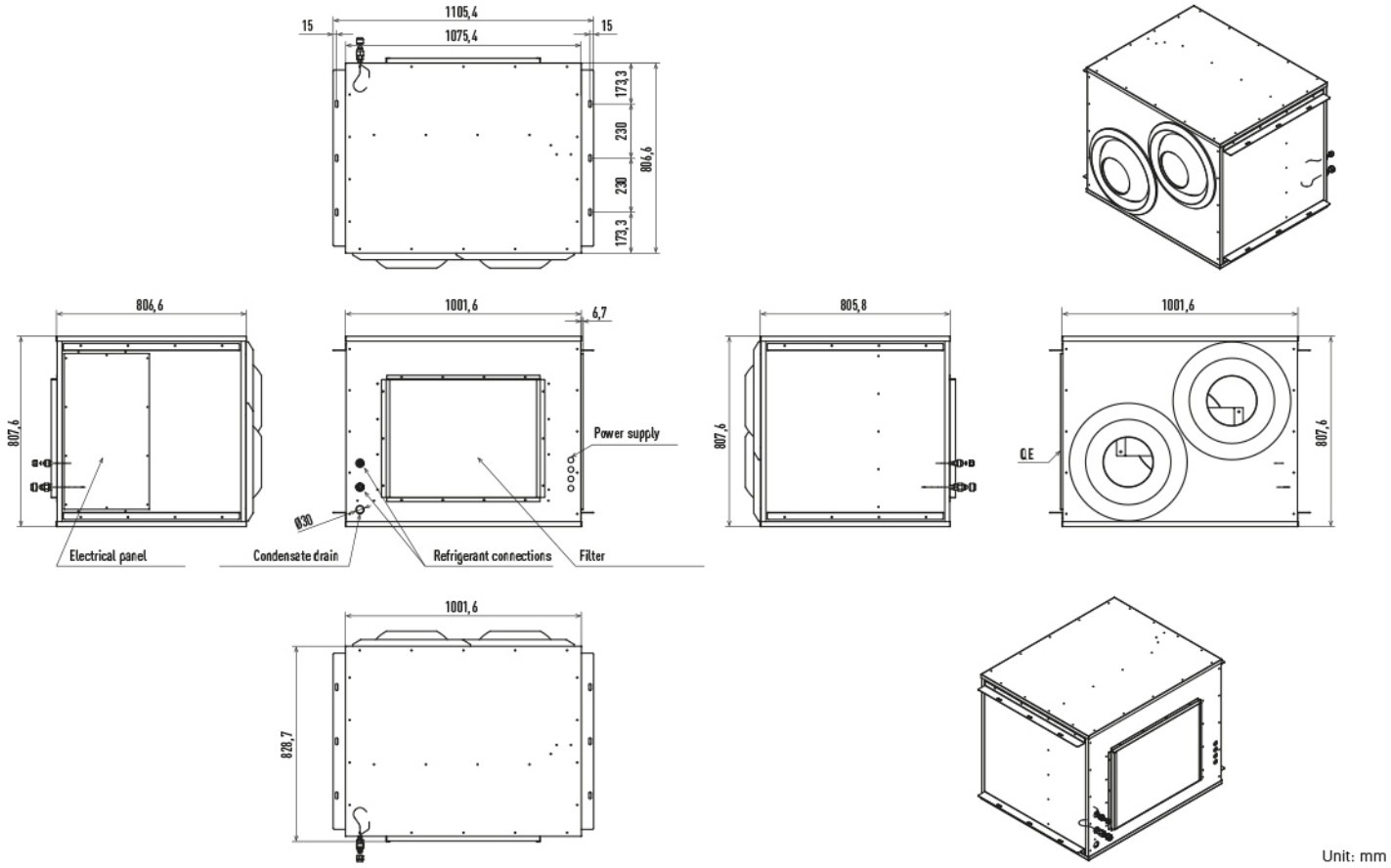
1. PCZ-AHRX0012: Touch panel controller with Modbus integration and group control up to 8 units.
2. PCZ-AHRP0681: Recessed mounting box for controller.
3. PCZ-AHRX0051: Ducted air intake plenum (1xDN 355mm) for VTVF140N and VTVF140P.
4. PCZ-AHRX0052: Ducted air intake plenum (2xDN 355mm) for VTVF250N and VTVF250P.
5. PCZ-AHRX0061: Ground air intake module (VTVF250 requires two of them).
6. PCZ-AHRX0071: Air supply grille for ducts.

NX Series Jet Air Stream

NX Series Jet Air Stream		SINGLE PHASE	THREE PHASE	
		14.0 kW	14.0 kW	25.0 kW
Kit		KIT-140MC5ZH5	KIT-140MC5ZH8	KIT-250MC5ZH8
Remote controller		PCZ-AHRX0012	PCZ-AHRX0012	PCZ-AHRX0012
Cooling capacity (Nominal)	kW	13,4	13,4	22,0
Cooling capacity (Min)	kW	3,3	3,3	6,1
Cooling capacity (Max)	kW	15,3	15,3	25,6
EER (Nominal) (1)	W/W	3,38	3,38	2,74
EER (Min) (1)	W/W	2,59	2,59	2,49
EER (Max) (1)	W/W	4,18	4,18	4,88
Heating capacity (Nominal)	kW	15,3	15,3	24,0
Heating capacity (Min)	kW	3,3	3,3	5,5
Heating capacity (Max)	kW	17,4	17,4	27,6
COP (Nominal) (1)	W/W	3,33	3,33	3,55
COP (Min) (1)	W/W	3,10	3,10	3,07
COP (Max) (1)	W/W	4,29	4,29	4,78
Indoor unit		P-VTVF140MC5-PE	P-VTVF140MC5-PE	P-VTVF250MC5-PE
Indoor dimension (Height)	mm	802	802	1.026
Indoor dimension (Width)	mm	1.010	1.010	1.360
Indoor dimension (Depth)	mm	893	893	953
Indoor net weight	kg	75	75	97
Outdoor unit		U-140PZH4E5	U-140PZH4E8	U-250PZH4E8
Outdoor sound pressure (Cool -Hi)	dB(A)	56	56	59
Outdoor sound pressure (Heat -Hi)	dB(A)	56	56	63
Outdoor dimension (Height)	mm	996	996	996
Outdoor dimension (Width)	mm	980	980	1.140
Outdoor dimension (Depth)	mm	370	370	460
Outdoor net weight	kg	86	84	109
Pipe diameter (Liquid)	Inch (mm)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)
Pipe diameter (Gas)	Inch (mm)	5/8 (15,88)	5/8 (15,88)	7/8 (22,22)
Pipe length range	m	5 ~ 100	5 ~ 100	5 ~ 100
Elevation difference (in/out)	m	15 / 30 (4)	15 / 30 (4)	30
Pipe length for additional gas	m	30	30	30
Additional gas amount	g/m	40	40	80
Refrigerant (R32) / CO2 Eq.	kg / T	3,00 / 2,03	3,00 / 2,03	4,80 / 3,24
Operating range (Cool - Min)	°C	-20 (5)	-20 (5)	-15
Operating range (Cool - Max)	°C	+52	+52	+52
Operating range (Heat - Min)	°C	-20	-20	-20
Operating range (Heat - Max)	°C	+24	+24	+35

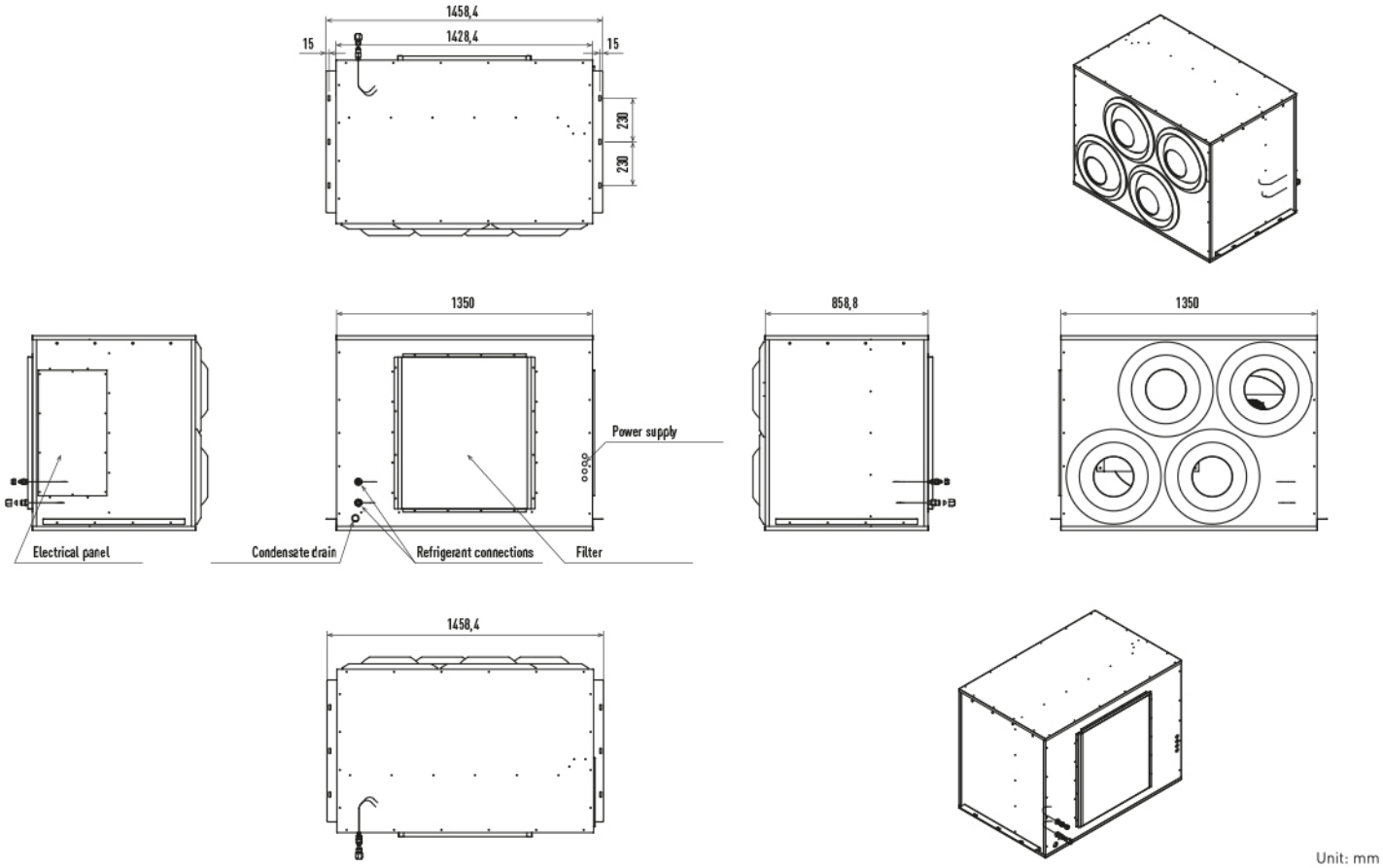
Dimensions

Jet Air Stream - P-VTVF25MC5-PE / P-VTVF25NC5-PE / P-VTVF25PC5-PE.



Unit: mm

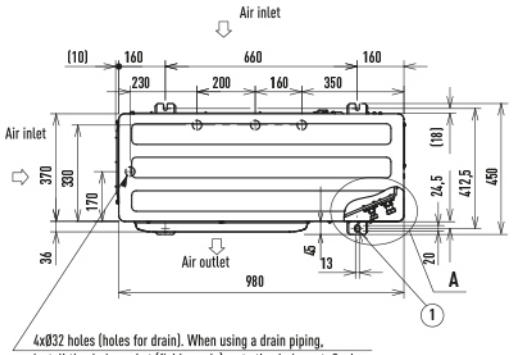
Jet Air Stream - P-VTVF50MC5-PE / P-VTVF50NC5-PE / P-VTVF50PC5-PE.



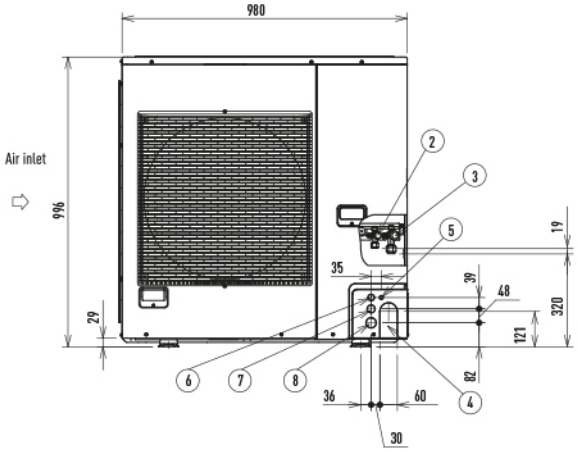
Unit: mm

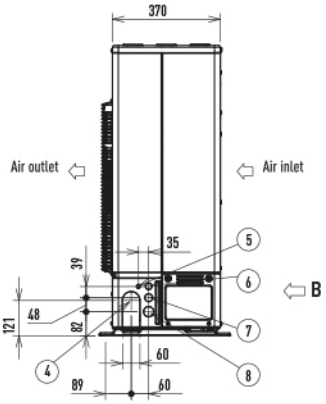
Dimensions

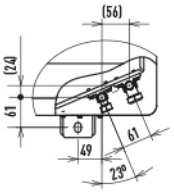
PACi NX Series Elite outdoor units from 7,1 kW to 14,0 kW and Standard from 10,0 to 14,0 kW.



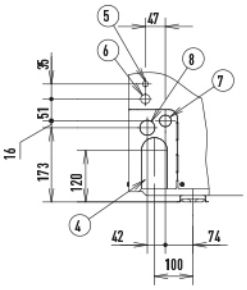
1	Mounting hole, anchor bolt: M10
2	Refrigerant piping (liquid), Ø9,52 (flared)
3	Refrigerant piping (gas), Ø15,88 (flared)
4	Refrigerant piping port
5	Electrical wiring port (Ø13)
6	Electrical wiring port (ØØ22)
7	Electrical wiring port (Ø27)
8	Electrical wiring port (Ø35)







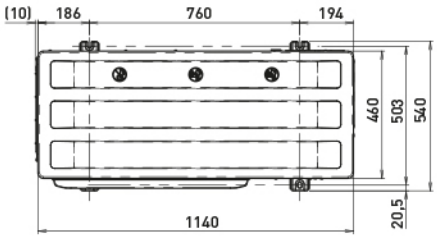
View A

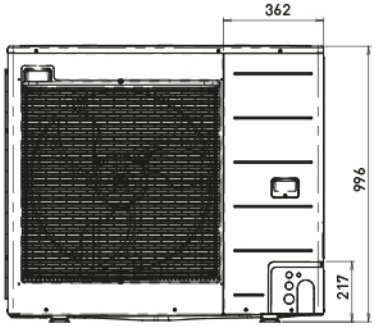


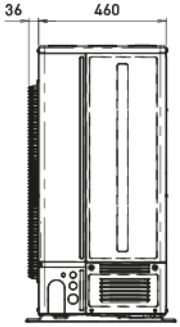
View B

Unit: mm

Big PACi NX outdoor units 20,0-25,0 kW.







Unit: mm

Unit: mm