

Heatcharge. Energy Charge System

heatcharge

Energy class A+++ and offers maximum comfort and energy savings. This powerful air heat pump is designed for commercial and residential climate that places extremely high demands on the heating system.



1 Powerful, reliable heating even at low ambient winter temperatures

When the heat pump is operating, the compressor, which is the power source of the unit, generates heat. Until now, this heat was released into the atmosphere. Panasonic has utilised this waste heat!

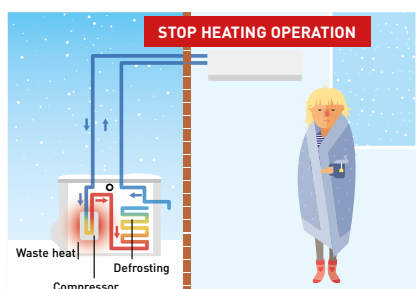
Constant heating.

Using stored heat provides stable heating with less drop in temperature.

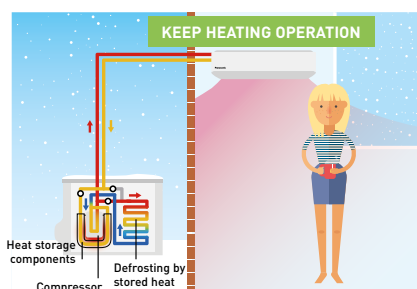
Even when heating operation stops during defrost operation, stored heat continues to constantly warm the room. This eliminates the previous discomfort due to the temperature dropping when heating temporarily stops to ensure stable heat pump heating.



Conventional. The room gradually becomes cold.
Defrost operation: About 11 to 15 min. Fall in room temperature: About 5 to 6 °C.



Heatcharge. The room is thoroughly warmed.
Defrost operation: About 5 to 6 min. Fall in room temperature: About 1 to 2 °C.



* Defrost operation time and how low room temperature falls differ depending on the environment in which the unit is being used (how insulated and airtight the room is), operation conditions, and temperature conditions.

* Output air temperature falls during defrost operation. How low room temperature falls differs depending on the environment in which the unit is being used (how insulated and airtight the room is), operation conditions, and temperature conditions.

* In environments where a lot of frost accumulates, heating may stop during defrost operation.

2 Panasonic's full line-up of A+++ heat pumps

In response to the Kyoto Protocol, the European Union set some challenging targets for the reduction in greenhouse-gas emissions. By the year 2020, across the member states, the EU wants to have achieved the following objectives:

- A 20 % cut in greenhouse gas emissions (from 1990 base levels)
- The share of renewables in the energy mix to increase by 20 %
- An overall reduction of 20 % in energy consumption

3 Comfort and efficiency

- nanoe™ technology with the benefits of hydroxyl radicals
- Higher efficiency and comfort with Econavi sunlight detection and human activity detection
- Powerful air flow to quickly reach the desired temperature

**Wall-mounted VZ Heatcharge Inverter+ • R32**

- Energy Charge System. Heat storage unit which utilizes non-stop heating and fast heating function
- Econavi Sunlight Detection sensor: Even higher efficiency and great comfort
- nanoe™ technology to improve protection 24/7
- Super Quiet! Only 18 dB(A), equivalent to night-time in the countryside
- Performance tested at -35 °C outdoor temperature

Maximum capacity			7,80 kW	9,20 kW
Indoor unit			CS-VZ9SKE	CS-VZ12SKE
Outdoor unit			CU-VZ9SKE	CU-VZ12SKE
Heating capacity	Nominal (Min - Max)	kW	3,60 [0,60 - 7,80]	4,20 [0,60 - 9,20]
COP ¹⁾		W/W	5,63	5,04
Heating capacity at -7 °C		kW	5,00	5,60
COP at -7 °C ¹⁾		W/W	2,07	2,00
Heating capacity at -15 °C		kW	4,80	5,22
COP at -15 °C ¹⁾		W/W	1,94	1,90
Heating capacity at -25 °C (tested by SP)		kW	3,72	3,67
COP at -25 °C (tested by SP)		W/W	1,63	1,50
Heating capacity at -35 °C (tested by SP)		kW	2,51	2,44
COP at -35 °C (tested by SP)		W/W	1,32	1,15
SCOP ²⁾			6,20A+++	5,90A+++
Pdesign at -10 °C		kW	3,60	4,20
Input power	Nominal (Min - Max)	kW	0,64 [0,14 - 2,72]	0,83 [0,14 - 3,16]
Annual energy consumption ³⁾		kWh/a	812	995
Cooling capacity	Nominal (Min - Max)	kW	2,50 [0,60 - 3,00]	3,50 [0,60 - 4,00]
SEER ¹⁾			10,50A+++	10,00A+++
Pdesign (cooling)		kW	2,50	3,50
Input power	Nominal (Min - Max)	kW	0,43 [0,14 - 0,61]	0,80 [0,14 - 0,98]
Annual energy consumption ³⁾		kWh/a	83	122
Indoor unit				
Power source		V	230	230
Connection indoor / outdoor		mm ²	4 x 1,5	4 x 1,5
Air flow	Heat / Cool (Hi)	m ³ /min	15,5 / 12,5	15,9 / 12,9
Sound pressure ⁴⁾	Heat (Hi / Lo / Q-Lo)	dB(A)	44 / 26 / 18	45 / 29 / 18
	Cool (Hi / Lo / Q-Lo)	dB(A)	44 / 27 / 18	45 / 33 / 18
Dimension	H x W x D	mm	295 x 798 x 375	295 x 798 x 375
Net weight		kg	14,5	14,5
Outdoor unit				
Air flow	Heat / Cool (Hi)	m ³ /min	33,1 / 33,1	33,9 / 35,4
Sound pressure ⁴⁾	Heat / Cool (Hi)	dB(A)	49 / 49	50 / 50
Dimension ⁵⁾	H x W x D	mm	630 x 799 x 299	630 x 799 x 299
Net weight		kg	39,5	39,5
Piping diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)
	Gas pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)
Pipe length range		m	3 - 15	3 - 15
Elevation difference (in/out) ⁶⁾		m	12	12
Pipe length for additional gas		m	7,5	7,5
Additional gas amount		g/m	20	20
Refrigerant (R32) / CO ₂ Eq.		kg / T	1,05 / 0,70875	1,10 / 0,7425
Operating range	Heat Min ~ Max	°C	-30 ~ +24	-30 ~ +24
	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43
Lowest outdoor temperature tested by 3rd party laboratory ⁷⁾		°C	-35	-35

Accessories

CZ-TACG1	Wi-Fi adapter for smart control via Panasonic Comfort Cloud App
-----------------	---

Accessories

CZ-CAPRA1	RAC interface adapter for integration into P-Link
PAW-SMSCONTROL	Control by SMS (need additional SIM card)

1) COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position of 1 m in front of the main body and 0,8 m below the unit. For outdoor unit 1 m in front and 1 m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70 mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit. 7) Tested by 3rd party laboratory, SP, according to EN14511:2013 and SP Method 1721, this temperature is not guaranteed by Factory.

The product is P-labelled. The P-labelling means that the product fulfils legal and regulatory requirements, but also in most cases, other, higher requirements that meet market demands. P-labelling means that the product is type approved and that the manufacturer's quality controls are monitored by SP. Certificated No.: SC0450-16. Certificated No.: SC0451-16.



SCOP and SEER: For CS-VZ9SKE. -35°C HEATING MODE: Heating performance tested at -35°C by SP, European 3rd party laboratory. INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Heating Outdoor 7 °C DB / 6 °C WB. [DB: Dry Bulb; WB: Wet Bulb]. Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.