

# A COMPACT DESIGN: EASY TO INSTALL AND MAINTAIN

### Aquarea is a very easy heating and air conditioning system to install either in new or old buildings.

Panasonic's Aquarea air to water system provides a considerable reduction on installation and maintenance costs. For new buildings, no drilling or excavation work is necessary to capture the heat, unlike geothermal installations, nor any gas connection, chimneys or fuel reservoirs. For retrofits or refurbishing, it is easy to connect to an existing heating system with low-temperature radiators or a radiant floor.

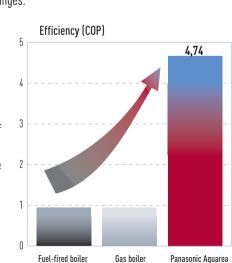
# COMFORT, SAVINGS AND POWER EVEN AT VERY LOW TEMPERATURES

#### Panasonic's Inverter+ system

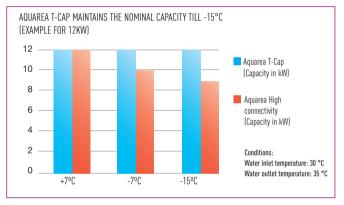
After quickly reaching the selected temperature, the Inverter+ system will gradually adjust the power in order to maintain a constant temperature. Thus, there will not be any sudden changes in temperature and the capacity of the power also guarantees a constant and pleasant temperature, even when the outside temperature changes.

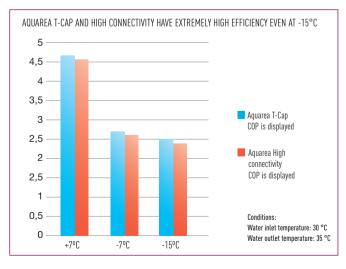


Panasonic heat pumps have a maximum COP of 4.74 at + 7°C which makes them much more efficient than fuel-fired boilers, gas boilers and electrical heaters.



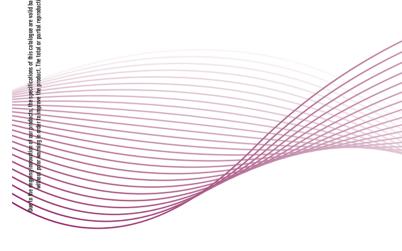
# 100% CAPACITY AT -15°C





Aquarea T-cap always has high efficiency and high heating capacity even at extremely low temperatures. With Aquarea T-Cap, you can always enjoy high savings.

\* Availability: Aquarea T-CAP Single phase. June 2011; Aquarea T-CAP Three phase: September 2011; Aquarea HT: Mars 2012. \*\* Tentative spec, Conditions : Water inlet temperature: 30 °C. Water outlet temperature: 35 ° C ; outside temperature: +7°C



# Panasonic

To find out how Panasonic cares for you, log on to: www.panasonic-heating.com

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heatingandcoolingsystems

# INNOVATIVE **SOLUTION** FOR HEATING



# AQUAREA HIGH CONNECTIVITY & T-CAP. NEW AIR-TO-WATER HEAT PUMP COST-EFFECTIVE AND ENVIRONMENTALLY FRIENDLY, PANASONIC'S NEW AQUAREA AIR-TO-WATER SYSTEM PROVIDES MAXIMUM EFFICIENCY AND CAPACITY UP TO -20 °C

Panasonic's new Aquarea system, based on high-efficiency heat pump technology, not only heats your home and hot water, but also cools your home in summer with incredible performances. This creates perfect comfort whatever the weather conditions, even at outdoor temperatures as low as -20°C.

## At the forefront of energy innovation, Aquarea is resolutely positioned as a "green" heating and air-conditioning system.

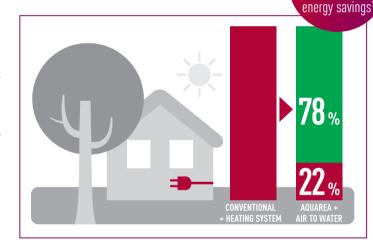
Aquarea is part of a new generation of heating and air-conditioning systems that use a renewable, free energy source – the air – to heat or cool the home and to produce hot water. The Aquarea heat pump is a much more flexible and cost-effective alternative to a traditional fossil fuel boiler.

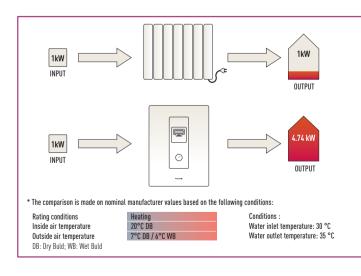
# UP TO 78% ENERGY SAVINGS<sup>1)</sup>

Panasonic's Aquarea heat pump provides savings of up to 78% on heating expenses compared with electrical heaters. For example, the Aquarea system of 9 kW has a COP of 4.74 which means that for every kW of electricity consumed, it returns 4.74 kW of energy, i.e. 3.74 kW more than a conventional electrical heating system which has a maximum COP of 1. This is equivalent to a 78% saving.

Consumption can be further reduced by connecting solar panels to the Aquarea system.

1) Up to 78% of the heat produced by a heat pump is free, since it comes from the outdoor air.





# **AQUAREA T-CAP**

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			SINGLE-PHASE		THREE-PHASE	
INDOOR UNIT			WH-SXF09D3E5	WH-SXF12D6E5	WH-SXF09D3E8	WH-SXF12D9E8
Heating Capacity at ·	+7°C	kW	9	12	9	12
COP at +7°C with he	ating water temperature at 35°	°C	4,74	4,67	4,74	4,67
Heating Capacity at -7°C k			9	12	9	12
COP at -7°C with hea	ating water temperature at 35	°C	2,81	2,7	2,81	2,7
Heating Capacity at ·	-15°C	kW	9	12	9	12
COP at -15°C with he	eating water temperature at 35	°C	2,54	2,43	2,54	2,43
Operation Range	Operation Range Outdoor Ambient °		-20 to 35	-20 to 35	–20 to 35	–20 to 35
	Water Outlet	°C	25 - 55	25 - 55	25 - 55	25 - 55



			SINGLE-PHASE		THREE-PHASE		
INDOOR UNIT			WH-SXC09D3E5	WH-SXC12D6E5	WH-SXC09D3E8	WH-SXC12D9E8	
Heating Capacity at +	+7°C	kW	9	12	9	12	
COP at +7°C with heating water temperature at 35°C Heating Capacity at -7°C		j°C	4,74	4,67	4,74	4,67	
		kW	9	12	9	12	
COP at -7°C with heating water temperature at 35°C			2,81	2,7	2,81	2,7	
Heating Capacity at -	15°C	kW	9	12	9	12	
COP at -15°C with he	eating water temperature at 3	5°C	2,54	2,43	2,54	2,43	
Operation Range	Outdoor Ambient	°C	-20 to 35	-20 to 35	-20 to 35	-20 to 35	
for Heating	Water Outlet	C	25 - 55	25 - 55	25 - 55	25 - 55	
Operation Range	Outdoor Ambient	°C	16 to 43	16 to 43	16 to 43	16 to 43	
for Cooling	Water Outlet	°C	5-20	5-20	5-20	5 - 20	

## MONO-BLOC // HEATING ONLY

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78%

Y // MXF				SINGLE-PHASE		THREE-PHASE	
	OUTDOOR UNIT			WH-MXF09D3E5	WH-MXF12D6E5	WH-MXF09D3E8	WH-MXF12D9E8
	Heating Capacity at +	-7°C	kW	9	12	9	12
	COP at +7°C with he	ating water temperature at 35°C	)	4,74	4,67	4,74	4,67
	Heating Capacity at -		kW	9	12	9	12
	COP at -7°C with hea	iting water temperature at 35 °C	2	2,81	2,7	2,81	2,7
	Heating Capacity at -	15°C	kW	9	12	9	12
	COP at -15°C with he	ating water temperature at 35°	С	2,54	2,43	2,54	2,43
	Operation Range Outdoor Ambient			-20 to 35	-20 to 35	–20 to 35	-20 to 35
		Water Outlet	°C	25 - 55	25 - 55	25 - 55	25 - 55

#### MONO-BLOC // HEATING AND COOLING// MXC

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			SINGLE-PHASE		THREE-PHASE	
OUTDOOR UNIT			WH-MXC09D3E5	WH-MXC12D6E5	WH-MXC09D3E8	WH-MXC12D9E8
Heating Capacity at	+7°C	kW	9	12	9	12
COP at +7°C with he	ating water temperature at	35°C	4,74	4,67	4,74	4,67
Heating Capacity at	-7°C	kW	9	12	9	12
COP at -7°C with he	ating water temperature at 3	35°C	2,81	2,7	2,81	2,7
Heating Capacity at	-15°C		9	12	9	12
COP at -15°C with h	eating water temperature at	35°C	2,54	2,43	2,54	2,43
Operation Range	Outdoor Ambient	J°	-20 to 35	-20 to 35	–20 to 35	-20 to 35
for Heating	Water Outlet	°C	25 - 55	25 - 55	25 - 55	25 - 55
Operation Range	Outdoor Ambient	C	16 to 43	16 to 43	16 to 43	16 to 43
for Cooling	Water Outlet	°C	5 - 20	5-20	5-20	5-20

		SANITARY TANK			WH-TD20B3E5	WH-TD30B3E5
	-	Water volume		L	198	287
		Max. water temperat	ure	J°	75	75
-		Dimension	Hight	mm	1.150	1.600
			Diameter		580	580
	•	Weight		kg	46	60
•		Electric heater		kŴ	3	3
	۲	Power supply			Single Phase	Single Phase
		Material inside tank			Inox	Inox







high	connectivity	X
boiler connection	Solar panels connection	
RENOVATION Our Aquarea heat pumps can be connect to an existing or new boiler for optimum	SOLAR KIT For even greater efficiency, our Aquarea heat pumps can be connected to solar	DH Wi do

comfort even at very low outside

temperatures.

# **AQUAREA HIGH CONNECTIVITY**

BI-BLOC // HIGH-CONNECTIVITY // HEATING ONLY // SDF S				SINGLE-PHA	\SE			THREE-PHASE					
		INDOOR UNIT			WH-SDF07C3E5	WH-SDF09C3E5	WH-SDF12C6E5	WH-SDF14C6E5	WH-SDF16C6E5	WH-SDF09C3E8	WH-SDF12C9E8	WH-SDF14C9E8	WH-SDF16C9E8
		Heating Capacity at	:+7°C	kW	7	9	12	14	16	9	12	14	16
		COP at +7°C with h	eating water temperature	at 35°C	4,4	4,09	4,67	4,5	4,23	4,74	4,67	4,5	4,23
		Heating Capacity at	:-7°C	kW	5,15	5,9	10	10,7	11,4	9	10	10,7	11,4
-		COP at -7°C with heating water temperature at 35 °C			2,65	2,5	2,7	2,62	2,55	2,81	2,7	2,62	2,55
		Heating Capacity at	: -15°C	kW	4,6	5,9	8,9	9,5	10,3	8,3	8,9	9,5	10,3
	-	COP at -15°C with h	neating water temperature	at 35°C	2,3	2,2	2,43	2,35	2,33	2,55	2,43	2,35	2,33
		Operation Range	Outdoor Ambient	°C	–20 to 35								
CONTRACTOR .			Water Outlet	°C	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55

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	ILATING AND 00			ONIOLE I NA								
	INDOOR UNIT			WH-SDC07C3E5	WH-SDC09C3E5	WH-SDC12C6E5	WH-SDC14C6E5	WH-SDC16C6E5	WH-SDC09C9E8	WH-SDC12C9E8	WH-SDC14C9E8	WH-SDC16C9E8
	Heating Capacity at	+7°C	kW	7	9	12	14	16	9	12	14	16
	COP at +7°C with h	eating water temperature a	t 35°C	4,4	4,09	4,67	4,5	4,23	4,74	4,67	4,5	4,23
	Heating Capacity at -7°C kW			5,15	5,9	10	10,7	11,4	9	10	10,7	11,4
Present	COP at -7°C with heating water temperature at 35°		35°C	2,65	2,5	2,7	2,62	2,55	2,81	2,7	2,62	2,55
	Heating Capacity at -15°C		kW	4,6	5,9	8,9	9,5	10,3	8,3	8,9	9,5	10,3
	COP at -15°C with heating water temperature at 35°C			2,3	2,2	2,43	2,35	2,33	2,55	2,43	2,35	2,33
		Outdoor Ambient	°C	–20 to 35								
	for Heating	Water Outlet	°C	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55
	Operation Range	Outdoor Ambient	°C	16 to 43								
	for Cooling	Water Outlet	°C	5 - 20	5 - 20	5-20	5-20	5-20	25-20	5 - 20	25-20	5 - 20
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MONO-BLOC // HIGH-CON	INECTIVITY // HEATI	NG ONLY // MDF	SINGLE-PHASE						THREE-PHASE				
	INDOOR UNIT			WH-MDF06D3E5	WH-MDF09D3E5	WH-MDF09C3E5	WH-MDF12C6E5	WH-MDF14C6E5	WH-MDF16C6E5	WH-MDF09C3E8	WH-MDF12C9E8	WH-MDF14C9E8	WH-MDF16C9E8
	Heating Capacity at	+7°C	kW	6	9	9	12	14	16	9	12	14	16
	COP at +7°C with hea	ting water temperature at	35°C	4,41	4,10	4,74	4,67	4,5	4,23	4,74	4,67	4,5	4,23
	Heating Capacity at -7°C kW			5,15	7,70	9	10	10,7	11,4	9	10	10,7	11,4
=	COP at +7°C with hea	ting water temperature at	35°C	2,65	2,10	2,81	2,7	2,62	2,55	2,81	2,7	2,62	2,55
	Heating Capacity at	-15°C	kW	5,9	7,6	8,3	8,9	9,5	10,3	8,3	8,9	9,5	10,3
	COP at +7°C with heating water temperature at 35°C			2,2	2,0	2,55	2,43	2,35	2,33	2,55	2,43	2,35	2,33
	Operation Range	Outdoor Ambient	°C	-20 to 35	-20 to 35	–20 to 35							
Accession in the second s		Water Outlet	°C	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55

IONO-BLOC // H	IGH-CONNECTI	/ITY // HEATING AND	COOLING // MDC	SINGLE-PHAS	ĴΕ			THREE-PHASE				
		INDOOR UNIT			WH-MDC09C3E5	WH-MDC12C6E5	WH-MDC14C6E5	WH-MDC16C6E5	WH-MDC09C3E8	WH-MDC12C9E8	WH-MDC14C9E8	WH-MDC16C9E8
		Heating Capacity at +7°C			9	12	14	16	9	12	14	16
	-	COP at +7°C with heating water temperature at 35°C			4,74	4,67	4,5	4,23	4,74	4,67	4,5	4,23
		Heating Capacity at -7°C			9	10	10,7	11,4	9	10	10,7	11,4
		COP at -7°C with heating water temperature at 35°C			2,81	2,7	2,62	2,55	2,81	2,7	2,62	2,55
		Heating Capacity at -15°C kW			8,3	8,9	9,5	10,3	8,3	8,9	9,5	10,3
		COP at -15°C with h	2,55	2,43	2,35	2,33	2,55	2,43	2,35	2,33		
		Operation Range	Outdoor Ambient	°C	–20 to 35							
		for Heating	Water Outlet	°C	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55
		Operation Range	Outdoor Ambient	°C	16 to 43							
		for Cooling	Water Outlet	°C	5-20	5 - 20	5-20	25-20	5-20	25-20	5-20	5-20

<b>OPTIONAL SAN</b>	NITARY TANK					
SANITARY TANK					WH-TD20B3E5	WH-TD30B3E5
	-	Water volume			198	287
		Max. water temperature		°C	75	75
-		Dimension	Hight	mm	1.150	1.600
		Diametermm			580	580
	Weight			kg	46	60
•		Electric heater		kW	3	3
٠	٠	Power supply			Single Phase	Single Phase
		Material inside ta	nk		Inox	Inox

panels with an optional kit.

With Aquarea you can also heat your domestic hot water at a very low cost with the optional hot water cyclinder.

