



PANASONIC ITALIA Branch Office di
PANASONIC MARKETING EUROPE GMBH
20126 Milano – Viale dell’Innovazione, 3

CERTIFICAZIONE 2019

DM 16/02/2016 – CONTO TERMICO 2.0

Aggiornamento della disciplina per l'incentivazione di interventi di piccole dimensioni per l'incremento dell'efficienza energetica e per la produzione di energia termica da fonti rinnovabili

DICHIARAZIONE DEL PRODUTTORE

In conformità al Decreto Ministeriale del 16 Febbraio 2016 Panasonic Italia dichiara che:

Le pompe di calore elettriche ad alta efficienza tipologia aria/acqua, riportate nella tabella allegata alla presente certificazione, rientrano nei parametri indicati nel DM 16/02/2016 in quanto soddisfano i valori minimi di COP (coefficiente di prestazione A7/W35) indicati nell'allegato II del decreto indicato.

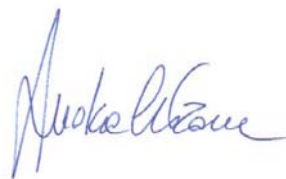
Le prestazioni sono state misurate secondo la norma UNI EN 14511:2004

Milano, 16/04/2019

PANASONIC ITALIA

Allegati:

Elenco dei modelli conformi al D.M.



Andrea Cetrone
Country Manager

PANASONIC ITALIA
Branch Office di Panasonic Marketing Europe GMBH

<u>LINEA AQUAREA POMPE DI CALORE ARIA-ACQUA</u>			Potenza termica kW_t	COP (A7/W35)	COP min (5% Tolleranza inverter)
TIPO	ESTERNA	INTERNA			
HT	WH-UH09FE5	WH-SHF09F3E5	9,0	4,64	3,895
	WH-UH12FE5	WH-SHF12F6E5	12,0	4,46	3,895
	WH-UH09FE8	WH-SHF09F3E8	9,0	4,64	3,895
	WH-UH12FE8	WH-SHF12F9E8	12,0	4,46	3,895
	WH-MHF09G3E5	-	9,0	4,64	3,895
	WH-MHF12G6E5	-	12,0	4,46	3,895
	WH-MHF09G3E8	-	9,0	4,64	3,895
	WH-MHF12G9E8	-	12,0	4,46	3,895
T-CAP	WH-UX09HE5	WH-ADC1216H6E5	9,0	4,85	3,895
	WH-UX12HE5	WH-ADC1216H6E5	12,0	4,75	3,895
	WH-UX09HE8	WH-ADC0916H9E8	9,0	4,85	3,895
	WH-UX12HE8	WH-ADC0916H9E8	12,0	4,75	3,895
	WH-UX16HE8	WH-ADC0916H9E8	16,0	4,28	3,895
	WH-UX09HE5	WH-SXC09H3E5	9,0	4,84	3,895
	WH-UX12HE5	WH-SXC12H6E5	12,0	4,74	3,895
	WH-UX09HE8	WH-SXC09H3E8	9,0	4,84	3,895
	WH-UX12HE8	WH-SXC12H9E8	12,0	4,74	3,895
	WH-UX16HE8	WH-SXC16H9E8	16,0	4,28	3,895
	WH-MXC09H3E5	-	9,0	4,84	3,895
	WH-MXC12H6E5	-	12	4,74	3,895
	WH-MXC09H3E8	-	9,0	4,84	3,895
	WH-MXC12H9E8	-	12,0	4,74	3,895
	WH-MXC16H9E8	-	16,0	4,28	3,895
SQ	WH-UQ09HE8	WH-ADC0916H9E8	9,0	4,84	3,895
	WH-UQ12HE8	WH-ADC0916H9E8	12,0	4,74	3,895
	WH-UQ16HE8	WH-ADC0916H9E8	16,0	4,28	3,895
	WH-UQ09HE8	WH-SQC09H3E8	9,0	4,84	3,895
	WH-UQ12HE8	WH-SQC12H9E8	12,0	4,74	3,895
	WH-UQ16HE8	WH-SQC16H9E8	16,0	4,28	3,895

<u>LINEA AQUAREA POMPE DI CALORE ARIA-ACQUA</u>			Potenza termica kW_t	COP (A7/W35)	COP min (5% Tolleranza inverter)
TIPO	ESTERNA	INTERNA			
LT	WH-UD03HE5	WH-ADC0309H3E5	3,0	5,00	3,895
	WH-UD03HE5	WH-ADC0309H3E5B	3,0	5,00	3,895
	WH-UD05HE5	WH-ADC0309H3E5	5,0	4,63	3,895
	WH-UD05HE5	WH-ADC0309H3E5B	5,0	4,63	3,895
	WH-UD07HE5	WH-ADC0309H3E5	7,0	4,46	3,895
	WH-UD07HE5	WH-ADC0309H3E5B	7,0	4,46	3,895
	WH-UD09HE5	WH-ADC0309H3E5	9,0	4,13	3,895
	WH-UD09HE5	WH-ADC0309H3E5B	9,0	4,13	3,895
	WH-UD12HE5	WH-ADC1216H6E5	12,0	4,75	3,895
	WH-UD16HE5	WH-ADC1216H6E5	16,0	4,28	3,895
	WH-UD09HE8	WH-ADC0916H9E8	9,0	4,85	3,895
	WH-UD12HE8	WH-ADC0916H9E8	12,0	4,75	3,895
	WH-UD16HE8	WH-ADC0916H9E8	16,0	4,28	3,895
	WH-UD03HE5	WH-SDC03H3E5	3,0	5,00	3,895
	WH-UD05HE5	WH-SDC05H3E5	5,0	4,63	3,895
	WH-UD07HE5	WH-SDC07H3E5	7,0	4,46	3,895
	WH-UD09HE5	WH-SDC09H3E5	9,0	4,13	3,895
	WH-UD12HE5	WH-SDC12H6E5	12,0	4,74	3,895
	WH-UD16HE5	WH-SDC16H6E5	16,0	4,28	3,895
	WH-UD09HE8	WH-SDC09H3E8	9,0	4,84	3,895
	WH-UD12HE8	WH-SDC12H9E8	12,0	4,74	3,895
	WH-UD16HE8	WH-SDC16H9E8	16,0	4,28	3,895
	WH-MDC05H3E5	-	5,0	5,08	3,895
	WH-MDC07H3E5	-	6,0	4,52	3,895
	WH-MDC09H3E5	-	9,0	4,29	3,895
	WH-MDC12H6E5	-	12,0	4,74	3,895
	WH-MDC16H6E5	-	16,0	4,28	3,895

Zona climatica			F	I _{TOT} = Ci x (1-1/COP) x P _n x Q _{uf} x anni							
LINEA AQUAREA POMPE DI CALORE ARIA-ACQUA			kW _t	COP	COP min (5% Tolleranza inverter)	coeff. Valorizzazione Ci (€/kWh _t)	1- 1/COP	potenza termica nominale	Coefficiente utilizzo (Q _{uf})	anni	incentivo TOT*
TIPO	ESTERNA	INTERNA									
HT	WH-UH09FE5	WH-SHF09F3E5	9,0	4,64	3,895	0,110	0,78	9,0	1800	2	€ 2.796
	WH-UH12FE5	WH-SHF12F6E5	12,0	4,46	3,895	0,110	0,78	12,0	1800	2	€ 3.687
	WH-UH09FE8	WH-SHF09F3E8	9,0	4,64	3,895	0,110	0,78	9,0	1800	2	€ 2.796
	WH-UH12FE8	WH-SHF12F9E8	12,0	4,46	3,895	0,110	0,78	12,0	1800	2	€ 3.687
	WH-MHF09G3E5	-	9,0	4,64	3,895	0,110	0,78	9,0	1800	2	€ 2.796
	WH-MHF12G6E5	-	12,0	4,46	3,895	0,110	0,78	12,0	1800	2	€ 3.687
	WH-MHF09G3E8	-	9,0	4,64	3,895	0,110	0,78	9,0	1800	2	€ 2.796
	WH-MHF12G9E8	-	12,0	4,46	3,895	0,110	0,78	12,0	1800	2	€ 3.687
T-CAP	WH-UX09HE5	WH-ADC1216H6E5	9,0	4,84	3,895	0,110	0,79	9,0	1800	2	€ 2.828
	WH-UX12HE5	WH-ADC1216H6E5	12,0	4,74	3,895	0,110	0,79	12,0	1800	2	€ 3.749
	WH-UX09HE8	WH-ADC0916H9E8	9,0	4,84	3,895	0,110	0,79	9,0	1800	2	€ 2.828
	WH-UX12HE8	WH-ADC0916H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1800	2	€ 3.749
	WH-UX16HE8	WH-ADC0916H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1800	2	€ 4.856
	WH-UX09HE5	WH-SXC09H3E5	9,0	4,84	3,895	0,110	0,79	9,0	1800	2	€ 2.828
	WH-UX12HE5	WH-SXC12H6E5	12,0	4,74	3,895	0,110	0,79	12,0	1800	2	€ 3.749
	WH-UX09HE8	WH-SXC09H3E8	9,0	4,84	3,895	0,110	0,79	9,0	1800	2	€ 2.828
	WH-UX12HE8	WH-SXC12H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1800	2	€ 3.749
	WH-UX16HE8	WH-SXC16H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1800	2	€ 4.856
	WH-MXC09H3E5	-	9,0	4,84	3,895	0,110	0,79	9,0	1800	2	€ 2.828
	WH-MXC12H6E5	-	12	4,74	3,895	0,110	0,79	12,0	1800	2	€ 3.749
	WH-MXC09H3E8	-	9,0	4,84	3,895	0,110	0,79	9,0	1800	2	€ 2.828
	WH-MXC12H9E8	-	12,0	4,74	3,895	0,110	0,79	12,0	1800	2	€ 3.749
	WH-MXC16H9E8	-	16,0	4,28	3,895	0,110	0,77	16,0	1800	2	€ 4.856
SQ	WH-UQ09HE8	WH-ADC0916H9E8	9,0	4,84	3,895	0,110	0,79	9,0	1800	2	€ 2.828
	WH-UQ12HE8	WH-ADC0916H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1800	2	€ 3.749
	WH-UQ16HE8	WH-ADC0916H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1800	2	€ 4.856
	WH-UQ09HE8	WH-SQC09H3E8	9,0	4,84	3,895	0,110	0,79	9,0	1800	2	€ 2.828
	WH-UQ12HE8	WH-SQC12H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1800	2	€ 3.749
	WH-UQ16HE8	WH-SQC16H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1800	2	€ 4.856
LT	WH-UD03HE5	WH-ADC0309H3E5	3,0	5,00	3,895	0,110	0,80	3,0	1800	2	€ 950
	WH-UD03HE5	WH-ADC0309H3E5B	3,0	5,00	3,895	0,110	0,80	3,0	1800	2	€ 950
	WH-UD05HE5	WH-ADC0309H3E5	5,0	4,63	3,895	0,110	0,78	5,0	1800	2	€ 1.552
	WH-UD05HE5	WH-ADC0309H3E5B	5,0	4,63	3,895	0,110	0,78	5,0	1800	2	€ 1.552
	WH-UD07HE5	WH-ADC0309H3E5	7,0	4,46	3,895	0,110	0,78	7,0	1800	2	€ 2.150
	WH-UD07HE5	WH-ADC0309H3E5B	7,0	4,46	3,895	0,110	0,78	7,0	1800	2	€ 2.150
	WH-UD09HE5	WH-ADC0309H3E5	9,0	4,13	3,895	0,110	0,76	9,0	1800	2	€ 2.701
	WH-UD09HE5	WH-ADC0309H3E5B	9,0	4,13	3,895	0,110	0,76	9,0	1800	2	€ 2.701
	WH-UD12HE5	WH-ADC1216H6E5	12,0	4,74	3,895	0,110	0,79	12,0	1800	2	€ 3.749
	WH-UD16HE5	WH-ADC1216H6E5	16,0	4,28	3,895	0,110	0,77	16,0	1800	2	€ 4.856
	WH-UD09HE8	WH-ADC0916H9E8	9,0	4,85	3,895	0,110	0,79	9,0	1800	2	€ 2.829
	WH-UD12HE8	WH-ADC0916H9E8	12,0	4,75	3,895	0,110	0,79	12,0	1800	2	€ 3.752
	WH-UD16HE8	WH-ADC0916H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1800	2	€ 4.856
	WH-UD03HE5	WH-SDC03H3E5	3,0	5,00	3,895	0,110	0,80	3,0	1800	2	€ 950
	WH-UD05HE5	WH-SDC05H3E5	5,0	4,63	3,895	0,110	0,78	5,0	1800	2	€ 1.552
	WH-UD07HE5	WH-SDC07H3E5	7,0	4,46	3,895	0,110	0,78	7,0	1800	2	€ 2.150
	WH-UD09HE5	WH-SDC09H3E5	9,0	4,13	3,895	0,110	0,76	9,0	1800	2	€ 2.701
	WH-UD12HE5	WH-SDC12H6E5	12,0	4,74	3,895	0,110	0,79	12,0	1800	2	€ 3.749
	WH-UD16HE5	WH-SDC16H6E5	16,0	4,28	3,895	0,110	0,77	16,0	1800	2	€ 4.856
	WH-UD09HE8	WH-SDC09H3E8	9,0	4,84	3,895	0,110	0,79	9,0	1800	2	€ 2.828
	WH-UD12HE8	WH-SDC12H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1800	2	€ 3.749
	WH-UD16HE8	WH-SDC16H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1800	2	€ 4.856
	WH-MDC05H3E5	-	5,0	5,08	3,895	0,110	0,80	5,0	1800	2	€ 1.590
	WH-MDC07H3E5	-	7,0	4,52	3,895	0,110	0,78	7,0	1800	2	€ 2.159
	WH-MDC09H3E5	-	9,0	4,29	3,895	0,110	0,77	9,0	1800	2	€ 2.733
	WH-MDC12H6E5	-	12,0	4,74	3,895	0,110	0,79	12	1800	2	€ 3.749
	WH-MDC16H6E5	-	16,0	4,28	3,895	0,110	0,77	16	1800	2	€ 4.856

* Se incentivo totale < 5000€ viene restituito in 1 anno e non in 2 anni.

Pompe di calore Aria-Acqua < 35 kWt

COP 4,1 x 0,95 = 3,895

aria 7°C

acqua 35°C

Tipo di pompa di calore Ambiente esterno/interno	COP minimo	Denominazione commerciale	Potenza termica utile P _n	Coefficiente C _i
aria/aria	3,9	split/multisplit	≤ 35 kW _t	0,060
			> 35 kW _t	0,045
		VRF/VRV	≤ 35 kW _t	0,120
			> 35 kW _t	0,045
aria/acqua	4,1	aria/acqua	≤ 35 kW _t	0,110
	3,8		> 35 kW _t	0,045
aria/aria	GUE 1,46	split/multisplit	≤ 35 kW _t	0,080
			> 35 kW _t	0,055
		VRF/VRV	≤ 35 kW _t	0,150
			> 35 kW _t	0,045

Coefficiente di utilizzo dipende dalla zona climatica

Zona climatica	Q _{uf}
A	600
B	850
C	1100
D	1400
E	1700
F	1800

Zona climatica			E	I _{TOT} = Ci x (1-1/COP) x P _n x Q _{uf} x anni							
<u>LINEA AQUAREA POMPE DI CALORE ARIA-ACQUA</u>			kW _t	COP	COP min (5% Tolleranza inverter)	coeff. Valorizzazione Ci (€/kWh _t)	1- 1/COP	potenza termica nominale	Coefficiente utilizzo (Q _{uf})	anni	incentivo TOT*
TIPO	ESTERNA	INTERNA									
HT	WH-UH09FE5	WH-SHF09F3E5	9,0	4,64	3,895	0,110	0,78	9,0	1700	2	€ 2.641
	WH-UH12FE5	WH-SHF12F6E5	12,0	4,46	3,895	0,110	0,78	12,0	1700	2	€ 3.482
	WH-UH09FE8	WH-SHF09F3E8	9,0	4,64	3,895	0,110	0,78	9,0	1700	2	€ 2.641
	WH-UH12FE8	WH-SHF12F9E8	12,0	4,46	3,895	0,110	0,78	12,0	1700	2	€ 3.482
	WH-MHF09G3E5	-	9,0	4,64	3,895	0,110	0,78	9,0	1700	2	€ 2.641
	WH-MHF12G6E5	-	12,0	4,46	3,895	0,110	0,78	12,0	1700	2	€ 3.482
	WH-MHF09G3E8	-	9,0	4,64	3,895	0,110	0,78	9,0	1700	2	€ 2.641
	WH-MHF12G9E8	-	12,0	4,46	3,895	0,110	0,78	12,0	1700	2	€ 3.482
T-CAP	WH-UX09HE5	WH-ADC1216H6E5	9,0	4,84	3,895	0,110	0,79	9,0	1700	2	€ 2.671
	WH-UX12HE5	WH-ADC1216H6E5	12,0	4,74	3,895	0,110	0,79	12,0	1700	2	€ 3.541
	WH-UX09HE8	WH-ADC0916H9E8	9,0	4,84	3,895	0,110	0,79	9,0	1700	2	€ 2.671
	WH-UX12HE8	WH-ADC0916H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1700	2	€ 3.541
	WH-UX16HE8	WH-ADC0916H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1700	2	€ 4.586
	WH-UX09HE5	WH-SXC09H3E5	9,0	4,84	3,895	0,110	0,79	9,0	1700	2	€ 2.671
	WH-UX12HE5	WH-SXC12H6E5	12,0	4,74	3,895	0,110	0,79	12,0	1700	2	€ 3.541
	WH-UX09HE8	WH-SXC09H3E8	9,0	4,84	3,895	0,110	0,79	9,0	1700	2	€ 2.671
	WH-UX12HE8	WH-SXC12H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1700	2	€ 3.541
	WH-UX16HE8	WH-SXC16H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1700	2	€ 4.586
	WH-MXC09H3E5	-	9,0	4,84	3,895	0,110	0,79	9,0	1700	2	€ 2.671
	WH-MXC12H6E5	-	12	4,74	3,895	0,110	0,79	12,0	1700	2	€ 3.541
	WH-MXC09H3E8	-	9,0	4,84	3,895	0,110	0,79	9,0	1700	2	€ 2.671
	WH-MXC12H9E8	-	12,0	4,74	3,895	0,110	0,79	12,0	1700	2	€ 3.541
	WH-MXC16H9E8	-	16,0	4,28	3,895	0,110	0,77	16,0	1700	2	€ 4.586
SQ	WH-UQ09HE8	WH-ADC0916H9E8	9,0	4,84	3,895	0,110	0,79	9,0	1700	2	€ 2.671
	WH-UQ12HE8	WH-ADC0916H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1700	2	€ 3.541
	WH-UQ16HE8	WH-ADC0916H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1700	2	€ 4.586
	WH-UQ09HE8	WH-SQC09H3E8	9,0	4,84	3,895	0,110	0,79	9,0	1700	2	€ 2.671
	WH-UQ12HE8	WH-SQC12H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1700	2	€ 3.541
	WH-UQ16HE8	WH-SQC16H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1700	2	€ 4.586
LT	WH-UD03HE5	WH-ADC0309H3E5	3,0	5,00	3,895	0,110	0,80	3,0	1700	2	€ 898
	WH-UD03HE5	WH-ADC0309H3E5B	3,0	5,00	3,895	0,110	0,80	3,0	1700	2	€ 898
	WH-UD05HE5	WH-ADC0309H3E5	5,0	4,63	3,895	0,110	0,78	5,0	1700	2	€ 1.466
	WH-UD05HE5	WH-ADC0309H3E5B	5,0	4,63	3,895	0,110	0,78	5,0	1700	2	€ 1.466
	WH-UD07HE5	WH-ADC0309H3E5	7,0	4,46	3,895	0,110	0,78	7,0	1700	2	€ 2.031
	WH-UD07HE5	WH-ADC0309H3E5B	7,0	4,46	3,895	0,110	0,78	7,0	1700	2	€ 2.031
	WH-UD09HE5	WH-ADC0309H3E5	9,0	4,13	3,895	0,110	0,76	9,0	1700	2	€ 2.551
	WH-UD09HE5	WH-ADC0309H3E5B	9,0	4,13	3,895	0,110	0,76	9,0	1700	2	€ 2.551
	WH-UD12HE5	WH-ADC1216H6E5	12,0	4,74	3,895	0,110	0,79	12,0	1700	2	€ 3.541
	WH-UD16HE5	WH-ADC1216H6E5	16,0	4,28	3,895	0,110	0,77	16,0	1700	2	€ 4.586
	WH-UD09HE8	WH-ADC0916H9E8	9,0	4,85	3,895	0,110	0,79	9,0	1700	2	€ 2.672
	WH-UD12HE8	WH-ADC0916H9E8	12,0	4,75	3,895	0,110	0,79	12,0	1700	2	€ 3.543
	WH-UD16HE8	WH-ADC0916H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1700	2	€ 4.586
	WH-UD03HE5	WH-SDC03H3E5	3,0	5,00	3,895	0,110	0,80	3,0	1700	2	€ 898
	WH-UD05HE5	WH-SDC05H3E5	5,0	4,63	3,895	0,110	0,78	5,0	1700	2	€ 1.466
	WH-UD07HE5	WH-SDC07H3E5	7,0	4,46	3,895	0,110	0,78	7,0	1700	2	€ 2.031
	WH-UD09HE5	WH-SDC09H3E5	9,0	4,13	3,895	0,110	0,76	9,0	1700	2	€ 2.551
	WH-UD12HE5	WH-SDC12H6E5	12,0	4,74	3,895	0,110	0,79	12,0	1700	2	€ 3.541
	WH-UD16HE5	WH-SDC16H6E5	16,0	4,28	3,895	0,110	0,77	16,0	1700	2	€ 4.586
	WH-UD09HE8	WH-SDC09H3E8	9,0	4,84	3,895	0,110	0,79	9,0	1700	2	€ 2.671
	WH-UD12HE8	WH-SDC12H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1700	2	€ 3.541
	WH-UD16HE8	WH-SDC16H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1700	2	€ 4.586
	WH-MDC05H3E5	-	5,0	5,08	3,895	0,110	0,80	5,0	1700	2	€ 1.502
	WH-MDC07H3E5	-	7,0	4,52	3,895	0,110	0,78	7,0	1700	2	€ 2.039
	WH-MDC09H3E5	-	9,0	4,29	3,895	0,110	0,77	9,0	1700	2	€ 2.581
	WH-MDC12H6E5	-	12,0	4,74	3,895	0,110	0,79	12	1700	2	€ 3.541
	WH-MDC16H6E5	-	16,0	4,28	3,895	0,110	0,77	16	1700	2	€ 4.586

* Se incentivo totale < 5000€ viene restituito in 1 anno e non in 2 anni.

Pompe di calore Aria-Acqua < 35 kWt

COP 4,1 x 0,95 = 3,895

aria 7°C

acqua 35°C

Tipo di pompa di calore Ambiente esterno/interno	COP minimo	Denominazione commerciale	Potenza termica utile P _n	Coefficiente C _i
aria/aria	3,9	split/multisplit	≤ 35 kW _t	0,060
			> 35 kW _t	0,045
		VRF/VRV	≤ 35 kW _t	0,120
			> 35 kW _t	0,045
aria/acqua	4,1	aria/acqua	≤ 35 kW _t	0,110
	3,8		> 35 kW _t	0,045
aria/aria	GUE 1,46	split/multisplit	≤ 35 kW _t	0,080
			> 35 kW _t	0,055
		VRF/VRV	≤ 35 kW _t	0,150
			> 35 kW _t	0,045

Coefficiente di utilizzo dipende dalla zona climatica

Zona climatica	Q _{uf}
A	600
B	850
C	1100
D	1400
E	1700
F	1800

Zona climatica			D	I _{TOT} = Ci x (1-1/COP) x P _n x Q _{uf} x anni							
<u>LINEA AQUAREA POMPE DI CALORE ARIA-ACQUA</u>			kW _t	COP	COP min (5% Tolleranza inverter)	coeff. Valorizzazione Ci (€/kWh _t)	1- 1/COP	potenza termica nominale	Coefficiente utilizzo (Q _{uf})	anni	incentivo TOT*
TIPO	ESTERNA	INTERNA									
HT	WH-UH09FE5	WH-SHF09F3E5	9,0	4,64	3,895	0,110	0,78	9,0	1400	2	€ 2.175
	WH-UH12FE5	WH-SHF12F6E5	12,0	4,46	3,895	0,110	0,78	12,0	1400	2	€ 2.867
	WH-UH09FE8	WH-SHF09F3E8	9,0	4,64	3,895	0,110	0,78	9,0	1400	2	€ 2.175
	WH-UH12FE8	WH-SHF12F9E8	12,0	4,46	3,895	0,110	0,78	12,0	1400	2	€ 2.867
	WH-MHF09G3E5	-	9,0	4,64	3,895	0,110	0,78	9,0	1400	2	€ 2.175
	WH-MHF12G6E5	-	12,0	4,46	3,895	0,110	0,78	12,0	1400	2	€ 2.867
	WH-MHF09G3E8	-	9,0	4,64	3,895	0,110	0,78	9,0	1400	2	€ 2.175
	WH-MHF12G9E8	-	12,0	4,46	3,895	0,110	0,78	12,0	1400	2	€ 2.867
T-CAP	WH-UX09HE5	WH-ADC1216H6E5	9,0	4,84	3,895	0,110	0,79	9,0	1400	2	€ 2.199
	WH-UX12HE5	WH-ADC1216H6E5	12,0	4,74	3,895	0,110	0,79	12,0	1400	2	€ 2.916
	WH-UX09HE8	WH-ADC0916H9E8	9,0	4,84	3,895	0,110	0,79	9,0	1400	2	€ 2.199
	WH-UX12HE8	WH-ADC0916H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1400	2	€ 2.916
	WH-UX16HE8	WH-ADC0916H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1400	2	€ 3.777
	WH-UX09HE5	WH-SXC09H3E5	9,0	4,84	3,895	0,110	0,79	9,0	1400	2	€ 2.199
	WH-UX12HE5	WH-SXC12H6E5	12,0	4,74	3,895	0,110	0,79	12,0	1400	2	€ 2.916
	WH-UX09HE8	WH-SXC09H3E8	9,0	4,84	3,895	0,110	0,79	9,0	1400	2	€ 2.199
	WH-UX12HE8	WH-SXC12H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1400	2	€ 2.916
	WH-UX16HE8	WH-SXC16H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1400	2	€ 3.777
	WH-MXC09H3E5	-	9,0	4,84	3,895	0,110	0,79	9,0	1400	2	€ 2.199
	WH-MXC12H6E5	-	12	4,74	3,895	0,110	0,79	12,0	1400	2	€ 2.916
	WH-MXC09H3E8	-	9,0	4,84	3,895	0,110	0,79	9,0	1400	2	€ 2.199
	WH-MXC12H9E8	-	12,0	4,74	3,895	0,110	0,79	12,0	1400	2	€ 2.916
	WH-MXC16H9E8	-	16,0	4,28	3,895	0,110	0,77	16,0	1400	2	€ 3.777
SQ	WH-UQ09HE8	WH-ADC0916H9E8	9,0	4,84	3,895	0,110	0,79	9,0	1400	2	€ 2.199
	WH-UQ12HE8	WH-ADC0916H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1400	2	€ 2.916
	WH-UQ16HE8	WH-ADC0916H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1400	2	€ 3.777
	WH-UQ09HE8	WH-SQC09H3E8	9,0	4,84	3,895	0,110	0,79	9,0	1400	2	€ 2.199
	WH-UQ12HE8	WH-SQC12H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1400	2	€ 2.916
	WH-UQ16HE8	WH-SQC16H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1400	2	€ 3.777
LT	WH-UD03HE5	WH-ADC0309H3E5	3,0	5,00	3,895	0,110	0,80	3,0	1400	2	€ 739
	WH-UD03HE5	WH-ADC0309H3E5B	3,0	5,00	3,895	0,110	0,80	3,0	1400	2	€ 739
	WH-UD05HE5	WH-ADC0309H3E5	5,0	4,63	3,895	0,110	0,78	5,0	1400	2	€ 1.207
	WH-UD05HE5	WH-ADC0309H3E5B	5,0	4,63	3,895	0,110	0,78	5,0	1400	2	€ 1.207
	WH-UD07HE5	WH-ADC0309H3E5	7,0	4,46	3,895	0,110	0,78	7,0	1400	2	€ 1.673
	WH-UD07HE5	WH-ADC0309H3E5B	7,0	4,46	3,895	0,110	0,78	7,0	1400	2	€ 1.673
	WH-UD09HE5	WH-ADC0309H3E5	9,0	4,13	3,895	0,110	0,76	9,0	1400	2	€ 2.101
	WH-UD09HE5	WH-ADC0309H3E5B	9,0	4,13	3,895	0,110	0,76	9,0	1400	2	€ 2.101
	WH-UD12HE5	WH-ADC1216H6E5	12,0	4,74	3,895	0,110	0,79	12,0	1400	2	€ 2.916
	WH-UD16HE5	WH-ADC1216H6E5	16,0	4,28	3,895	0,110	0,77	16,0	1400	2	€ 3.777
	WH-UD09HE8	WH-ADC0916H9E8	9,0	4,85	3,895	0,110	0,79	9,0	1400	2	€ 2.200
	WH-UD12HE8	WH-ADC0916H9E8	12,0	4,75	3,895	0,110	0,79	12,0	1400	2	€ 2.918
	WH-UD16HE8	WH-ADC0916H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1400	2	€ 3.777
	WH-UD03HE5	WH-SDC03H3E5	3,0	5,00	3,895	0,110	0,80	3,0	1400	2	€ 739
	WH-UD05HE5	WH-SDC05H3E5	5,0	4,63	3,895	0,110	0,78	5,0	1400	2	€ 1.207
	WH-UD07HE5	WH-SDC07H3E5	7,0	4,46	3,895	0,110	0,78	7,0	1400	2	€ 1.673
	WH-UD09HE5	WH-SDC09H3E5	9,0	4,13	3,895	0,110	0,76	9,0	1400	2	€ 2.101
	WH-UD12HE5	WH-SDC12H6E5	12,0	4,74	3,895	0,110	0,79	12,0	1400	2	€ 2.916
	WH-UD16HE5	WH-SDC16H6E5	16,0	4,28	3,895	0,110	0,77	16,0	1400	2	€ 3.777
	WH-UD09HE8	WH-SDC09H3E8	9,0	4,84	3,895	0,110	0,79	9,0	1400	2	€ 2.199
	WH-UD12HE8	WH-SDC12H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1400	2	€ 2.916
	WH-UD16HE8	WH-SDC16H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1400	2	€ 3.777
	WH-MDC05H3E5	-	5,0	5,08	3,895	0,110	0,80	5,0	1400	2	€ 1.237
	WH-MDC07H3E5	-	7,0	4,52	3,895	0,110	0,78	7,0	1400	2	€ 1.679
	WH-MDC09H3E5	-	9,0	4,29	3,895	0,110	0,77	9,0	1400	2	€ 2.126
	WH-MDC12H6E5	-	12,0	4,74	3,895	0,110	0,79	12	1400	2	€ 2.916
	WH-MDC16H6E5	-	16,0	4,28	3,895	0,110	0,77	16	1400	2	€ 3.777

* Se incentivo totale < 5000€ viene restituito in 1 anno e non in 2 anni.

Pompe di calore Aria-Acqua < 35 kWt

COP 4,1 x 0,95 = 3,895

aria 7°C

acqua 35°C

Tipo di pompa di calore Ambiente esterno/interno	COP minimo	Denominazione commerciale	Potenza termica utile P _n	Coefficiente C _i
aria/aria	3,9	split/multisplit	≤ 35 kW _t	0,060
			> 35 kW _t	0,045
		VRF/VRV	≤ 35 kW _t	0,120
			> 35 kW _t	0,045
aria/acqua	4,1	aria/acqua	≤ 35 kW _t	0,110
	3,8		> 35 kW _t	0,045
aria/aria	GUE 1,46	split/multisplit	≤ 35 kW _t	0,080
			> 35 kW _t	0,055
		VRF/VRV	≤ 35 kW _t	0,150
			> 35 kW _t	0,045

Coefficiente di utilizzo dipende dalla zona climatica

Zona climatica	Q _{uf}
A	600
B	850
C	1100
D	1400
E	1700
F	1800

Zona climatica			C	I _{TOT} = Ci x (1-1/COP) x P _n x Q _{uf} x anni							
<u>LINEA AQUAREA POMPE DI CALORE ARIA-ACQUA</u>			kW _t	COP	COP min (5% Tolleranza inverter)	coeff. Valorizzazione Ci (€/kWh _t)	1- 1/COP	potenza termica nominale	Coefficiente utilizzo (Q _{uf})	anni	incentivo TOT*
TIPO	ESTERNA	INTERNA									
HT	WH-UH09FE5	WH-SHF09F3E5	9,0	4,64	3,895	0,110	0,78	9,0	1100	2	€ 1.709
	WH-UH12FE5	WH-SHF12F6E5	12,0	4,46	3,895	0,110	0,78	12,0	1100	2	€ 2.253
	WH-UH09FE8	WH-SHF09F3E8	9,0	4,64	3,895	0,110	0,78	9,0	1100	2	€ 1.709
	WH-UH12FE8	WH-SHF12F9E8	12,0	4,46	3,895	0,110	0,78	12,0	1100	2	€ 2.253
	WH-MHF09G3E5	-	9,0	4,64	3,895	0,110	0,78	9,0	1100	2	€ 1.709
	WH-MHF12G6E5	-	12,0	4,46	3,895	0,110	0,78	12,0	1100	2	€ 2.253
	WH-MHF09G3E8	-	9,0	4,64	3,895	0,110	0,78	9,0	1100	2	€ 1.709
	WH-MHF12G9E8	-	12,0	4,46	3,895	0,110	0,78	12,0	1100	2	€ 2.253
T-CAP	WH-UX09HE5	WH-ADC1216H6E5	9,0	4,84	3,895	0,110	0,79	9,0	1100	2	€ 1.728
	WH-UX12HE5	WH-ADC1216H6E5	12,0	4,74	3,895	0,110	0,79	12,0	1100	2	€ 2.291
	WH-UX09HE8	WH-ADC0916H9E8	9,0	4,84	3,895	0,110	0,79	9,0	1100	2	€ 1.728
	WH-UX12HE8	WH-ADC0916H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1100	2	€ 2.291
	WH-UX16HE8	WH-ADC0916H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1100	2	€ 2.967
	WH-UX09HE5	WH-SXC09H3E5	9,0	4,84	3,895	0,110	0,79	9,0	1100	2	€ 1.728
	WH-UX12HE5	WH-SXC12H6E5	12,0	4,74	3,895	0,110	0,79	12,0	1100	2	€ 2.291
	WH-UX09HE8	WH-SXC09H3E8	9,0	4,84	3,895	0,110	0,79	9,0	1100	2	€ 1.728
	WH-UX12HE8	WH-SXC12H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1100	2	€ 2.291
	WH-UX16HE8	WH-SXC16H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1100	2	€ 2.967
	WH-MXC09H3E5	-	9,0	4,84	3,895	0,110	0,79	9,0	1100	2	€ 1.728
	WH-MXC12H6E5	-	12	4,74	3,895	0,110	0,79	12,0	1100	2	€ 2.291
	WH-MXC09H3E8	-	9,0	4,84	3,895	0,110	0,79	9,0	1100	2	€ 1.728
	WH-MXC12H9E8	-	12,0	4,74	3,895	0,110	0,79	12,0	1100	2	€ 2.291
	WH-MXC16H9E8	-	16,0	4,28	3,895	0,110	0,77	16,0	1100	2	€ 2.967
SQ	WH-UQ09HE8	WH-ADC0916H9E8	9,0	4,84	3,895	0,110	0,79	9,0	1100	2	€ 1.728
	WH-UQ12HE8	WH-ADC0916H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1100	2	€ 2.291
	WH-UQ16HE8	WH-ADC0916H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1100	2	€ 2.967
	WH-UQ09HE8	WH-SQC09H3E8	9,0	4,84	3,895	0,110	0,79	9,0	1100	2	€ 1.728
	WH-UQ12HE8	WH-SQC12H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1100	2	€ 2.291
	WH-UQ16HE8	WH-SQC16H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1100	2	€ 2.967
LT	WH-UD03HE5	WH-ADC0309H3E5	3,0	5,00	3,895	0,110	0,80	3,0	1100	2	€ 581
	WH-UD03HE5	WH-ADC0309H3E5B	3,0	5,00	3,895	0,110	0,80	3,0	1100	2	€ 581
	WH-UD05HE5	WH-ADC0309H3E5	5,0	4,63	3,895	0,110	0,78	5,0	1100	2	€ 949
	WH-UD05HE5	WH-ADC0309H3E5B	5,0	4,63	3,895	0,110	0,78	5,0	1100	2	€ 949
	WH-UD07HE5	WH-ADC0309H3E5	7,0	4,46	3,895	0,110	0,78	7,0	1100	2	€ 1.314
	WH-UD07HE5	WH-ADC0309H3E5B	7,0	4,46	3,895	0,110	0,78	7,0	1100	2	€ 1.314
	WH-UD09HE5	WH-ADC0309H3E5	9,0	4,13	3,895	0,110	0,76	9,0	1100	2	€ 1.651
	WH-UD09HE5	WH-ADC0309H3E5B	9,0	4,13	3,895	0,110	0,76	9,0	1100	2	€ 1.651
	WH-UD12HE5	WH-ADC1216H6E5	12,0	4,74	3,895	0,110	0,79	12,0	1100	2	€ 2.291
	WH-UD16HE5	WH-ADC1216H6E5	16,0	4,28	3,895	0,110	0,77	16,0	1100	2	€ 2.967
	WH-UD09HE8	WH-ADC0916H9E8	9,0	4,85	3,895	0,110	0,79	9,0	1100	2	€ 1.729
	WH-UD12HE8	WH-ADC0916H9E8	12,0	4,75	3,895	0,110	0,79	12,0	1100	2	€ 2.293
	WH-UD16HE8	WH-ADC0916H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1100	2	€ 2.967
	WH-UD03HE5	WH-SDC03H3E5	3,0	5,00	3,895	0,110	0,80	3,0	1100	2	€ 581
	WH-UD05HE5	WH-SDC05H3E5	5,0	4,63	3,895	0,110	0,78	5,0	1100	2	€ 949
	WH-UD07HE5	WH-SDC07H3E5	7,0	4,46	3,895	0,110	0,78	7,0	1100	2	€ 1.314
	WH-UD09HE5	WH-SDC09H3E5	9,0	4,13	3,895	0,110	0,76	9,0	1100	2	€ 1.651
	WH-UD12HE5	WH-SDC12H6E5	12,0	4,74	3,895	0,110	0,79	12,0	1100	2	€ 2.291
	WH-UD16HE5	WH-SDC16H6E5	16,0	4,28	3,895	0,110	0,77	16,0	1100	2	€ 2.967
	WH-UD09HE8	WH-SDC09H3E8	9,0	4,84	3,895	0,110	0,79	9,0	1100	2	€ 1.728
	WH-UD12HE8	WH-SDC12H9E8	12,0	4,74	3,895	0,110	0,79	12,0	1100	2	€ 2.291
	WH-UD16HE8	WH-SDC16H9E8	16,0	4,28	3,895	0,110	0,77	16,0	1100	2	€ 2.967
	WH-MDC05H3E5	-	5,0	5,08	3,895	0,110	0,80	5,0	1100	2	€ 972
	WH-MDC07H3E5	-	7,0	4,52	3,895	0,110	0,78	7,0	1100	2	€ 1.319
	WH-MDC09H3E5	-	9,0	4,29	3,895	0,110	0,77	9,0	1100	2	€ 1.670
	WH-MDC12H6E5	-	12,0	4,74	3,895	0,110	0,79	12	1100	2	€ 2.291
	WH-MDC16H6E5	-	16,0	4,28	3,895	0,110	0,77	16	1100	2	€ 2.967

* Se incentivo totale < 5000€ viene restituito in 1 anno e non in 2 anni.

Pompe di calore Aria-Acqua < 35 kWt

COP 4,1 x 0,95 = 3,895

aria 7°C

acqua 35°C

Tipo di pompa di calore Ambiente esterno/interno	COP minimo	Denominazione commerciale	Potenza termica utile P _n	Coefficiente C _i
aria/aria	3,9	split/multisplit	≤ 35 kW _t	0,060
			> 35 kW _t	0,045
		VRF/VRV	≤ 35 kW _t	0,120
			> 35 kW _t	0,045
aria/acqua	4,1	aria/acqua	≤ 35 kW _t	0,110
	3,8		> 35 kW _t	0,045
aria/aria	GUE 1,46	split/multisplit	≤ 35 kW _t	0,080
			> 35 kW _t	0,055
		VRF/VRV	≤ 35 kW _t	0,150
			> 35 kW _t	0,045

Coefficiente di utilizzo dipende dalla zona climatica

Zona climatica	Q _{uf}
A	600
B	850
C	1100
D	1400
E	1700
F	1800

Zona climatica			B	I _{TOT} = Ci x (1-1/COP) x P _n x Q _{uf} x anni							
<u>LINEA AQUAREA POMPE DI CALORE ARIA-ACQUA</u>			kW _t	COP	COP min (5% Tolleranza inverter)	coeff. Valorizzazione Ci (€/kWh _t)	1- 1/COP	potenza termica nominale	Coefficiente utilizzo (Q _{uf})	anni	incentivo TOT*
TIPO	ESTERNA	INTERNA									
HT	WH-UH09FE5	WH-SHF09F3E5	9,0	4,64	3,895	0,110	0,78	9,0	850	2	€ 1.320
	WH-UH12FE5	WH-SHF12F6E5	12,0	4,46	3,895	0,110	0,78	12,0	850	2	€ 1.741
	WH-UH09FE8	WH-SHF09F3E8	9,0	4,64	3,895	0,110	0,78	9,0	850	2	€ 1.320
	WH-UH12FE8	WH-SHF12F9E8	12,0	4,46	3,895	0,110	0,78	12,0	850	2	€ 1.741
	WH-MHF09G3E5	-	9,0	4,64	3,895	0,110	0,78	9,0	850	2	€ 1.320
	WH-MHF12G6E5	-	12,0	4,46	3,895	0,110	0,78	12,0	850	2	€ 1.741
	WH-MHF09G3E8	-	9,0	4,64	3,895	0,110	0,78	9,0	850	2	€ 1.320
	WH-MHF12G9E8	-	12,0	4,46	3,895	0,110	0,78	12,0	850	2	€ 1.741
T-CAP	WH-UX09HE5	WH-ADC1216H6E5	9,0	4,84	3,895	0,110	0,79	9,0	850	2	€ 1.335
	WH-UX12HE5	WH-ADC1216H6E5	12,0	4,74	3,895	0,110	0,79	12,0	850	2	€ 1.771
	WH-UX09HE8	WH-ADC0916H9E8	9,0	4,84	3,895	0,110	0,79	9,0	850	2	€ 1.335
	WH-UX12HE8	WH-ADC0916H9E8	12,0	4,74	3,895	0,110	0,79	12,0	850	2	€ 1.771
	WH-UX16HE8	WH-ADC0916H9E8	16,0	4,28	3,895	0,110	0,77	16,0	850	2	€ 2.293
	WH-UX09HE5	WH-SXC09H3E5	9,0	4,84	3,895	0,110	0,79	9,0	850	2	€ 1.335
	WH-UX12HE5	WH-SXC12H6E5	12,0	4,74	3,895	0,110	0,79	12,0	850	2	€ 1.771
	WH-UX09HE8	WH-SXC09H3E8	9,0	4,84	3,895	0,110	0,79	9,0	850	2	€ 1.335
	WH-UX12HE8	WH-SXC12H9E8	12,0	4,74	3,895	0,110	0,79	12,0	850	2	€ 1.771
	WH-UX16HE8	WH-SXC16H9E8	16,0	4,28	3,895	0,110	0,77	16,0	850	2	€ 2.293
	WH-MXC09H3E5	-	9,0	4,84	3,895	0,110	0,79	9,0	850	2	€ 1.335
	WH-MXC12H6E5	-	12	4,74	3,895	0,110	0,79	12,0	850	2	€ 1.771
	WH-MXC09H3E8	-	9,0	4,84	3,895	0,110	0,79	9,0	850	2	€ 1.335
	WH-MXC12H9E8	-	12,0	4,74	3,895	0,110	0,79	12,0	850	2	€ 1.771
	WH-MXC16H9E8	-	16,0	4,28	3,895	0,110	0,77	16,0	850	2	€ 2.293
SQ	WH-UQ09HE8	WH-ADC0916H9E8	9,0	4,84	3,895	0,110	0,79	9,0	850	2	€ 1.335
	WH-UQ12HE8	WH-ADC0916H9E8	12,0	4,74	3,895	0,110	0,79	12,0	850	2	€ 1.771
	WH-UQ16HE8	WH-ADC0916H9E8	16,0	4,28	3,895	0,110	0,77	16,0	850	2	€ 2.293
	WH-UQ09HE8	WH-SQC09H3E8	9,0	4,84	3,895	0,110	0,79	9,0	850	2	€ 1.335
	WH-UQ12HE8	WH-SQC12H9E8	12,0	4,74	3,895	0,110	0,79	12,0	850	2	€ 1.771
	WH-UQ16HE8	WH-SQC16H9E8	16,0	4,28	3,895	0,110	0,77	16,0	850	2	€ 2.293
LT	WH-UD03HE5	WH-ADC0309H3E5	3,0	5,00	3,895	0,110	0,80	3,0	850	2	€ 449
	WH-UD03HE5	WH-ADC0309H3E5B	3,0	5,00	3,895	0,110	0,80	3,0	850	2	€ 449
	WH-UD05HE5	WH-ADC0309H3E5	5,0	4,63	3,895	0,110	0,78	5,0	850	2	€ 733
	WH-UD05HE5	WH-ADC0309H3E5B	5,0	4,63	3,895	0,110	0,78	5,0	850	2	€ 733
	WH-UD07HE5	WH-ADC0309H3E5	7,0	4,46	3,895	0,110	0,78	7,0	850	2	€ 1.016
	WH-UD07HE5	WH-ADC0309H3E5B	7,0	4,46	3,895	0,110	0,78	7,0	850	2	€ 1.016
	WH-UD09HE5	WH-ADC0309H3E5	9,0	4,13	3,895	0,110	0,76	9,0	850	2	€ 1.275
	WH-UD09HE5	WH-ADC0309H3E5B	9,0	4,13	3,895	0,110	0,76	9,0	850	2	€ 1.275
	WH-UD12HE5	WH-ADC1216H6E5	12,0	4,74	3,895	0,110	0,79	12,0	850	2	€ 1.771
	WH-UD16HE5	WH-ADC1216H6E5	16,0	4,28	3,895	0,110	0,77	16,0	850	2	€ 2.293
	WH-UD09HE8	WH-ADC0916H9E8	9,0	4,85	3,895	0,110	0,79	9,0	850	2	€ 1.336
	WH-UD12HE8	WH-ADC0916H9E8	12,0	4,75	3,895	0,110	0,79	12,0	850	2	€ 1.772
	WH-UD16HE8	WH-ADC0916H9E8	16,0	4,28	3,895	0,110	0,77	16,0	850	2	€ 2.293
	WH-UD03HE5	WH-SDC03H3E5	3,0	5,00	3,895	0,110	0,80	3,0	850	2	€ 449
	WH-UD05HE5	WH-SDC05H3E5	5,0	4,63	3,895	0,110	0,78	5,0	850	2	€ 733
	WH-UD07HE5	WH-SDC07H3E5	7,0	4,46	3,895	0,110	0,78	7,0	850	2	€ 1.016
	WH-UD09HE5	WH-SDC09H3E5	9,0	4,13	3,895	0,110	0,76	9,0	850	2	€ 1.275
	WH-UD12HE5	WH-SDC12H6E5	12,0	4,74	3,895	0,110	0,79	12,0	850	2	€ 1.771
	WH-UD16HE5	WH-SDC16H6E5	16,0	4,28	3,895	0,110	0,77	16,0	850	2	€ 2.293
	WH-UD09HE8	WH-SDC09H3E8	9,0	4,84	3,895	0,110	0,79	9,0	850	2	€ 1.335
	WH-UD12HE8	WH-SDC12H9E8	12,0	4,74	3,895	0,110	0,79	12,0	850	2	€ 1.771
	WH-UD16HE8	WH-SDC16H9E8	16,0	4,28	3,895	0,110	0,77	16,0	850	2	€ 2.293
	WH-MDC05H3E5	-	5,0	5,08	3,895	0,110	0,80	5,0	850	2	€ 751
	WH-MDC07H3E5	-	7,0	4,52	3,895	0,110	0,78	7,0	850	2	€ 1.019
	WH-MDC09H3E5	-	9,0	4,29	3,895	0,110	0,77	9,0	850	2	€ 1.291
	WH-MDC12H6E5	-	12,0	4,74	3,895	0,110	0,79	12	850	2	€ 1.771
	WH-MDC16H6E5	-	16,0	4,28	3,895	0,110	0,77	16	850	2	€ 2.293

* Se incentivo totale < 5000€ viene restituito in 1 anno e non in 2 anni.

Pompe di calore Aria-Acqua < 35 kWt

COP 4,1 x 0,95 = 3,895

aria 7°C

acqua 35°C

Tipo di pompa di calore Ambiente esterno/interno	COP minimo	Denominazione commerciale	Potenza termica utile P _n	Coefficiente C _i
aria/aria	3,9	split/multisplit	≤ 35 kW _t	0,060
			> 35 kW _t	0,045
		VRF/VRV	≤ 35 kW _t	0,120
			> 35 kW _t	0,045
aria/acqua	4,1	aria/acqua	≤ 35 kW _t	0,110
	3,8		> 35 kW _t	0,045
aria/aria	GUE 1,46	split/multisplit	≤ 35 kW _t	0,080
			> 35 kW _t	0,055
		VRF/VRV	≤ 35 kW _t	0,150
			> 35 kW _t	0,045

Coefficiente di utilizzo dipende dalla zona climatica

Zona climatica	Q _{uf}
A	600
B	850
C	1100
D	1400
E	1700
F	1800

Zona climatica			A	I _{TOT} = Ci x (1-1/COP) x P _n x Q _{uf} x anni							
LINEA AQUAREA POMPE DI CALORE ARIA-ACQUA			kW _t	COP	COP min (5% Tolleranza inverter)	coeff. Valorizzazione Ci (€/kWh _t)	1- 1/COP	potenza termica nominale	Coefficiente utilizzo (Q _{uf})	anni	incentivo TOT*
TIPO	ESTERNA	INTERNA									
HT	WH-UH09FE5	WH-SHF09F3E5	9,0	4,64	3,895	0,110	0,78	9,0	600	2	€ 932
	WH-UH12FE5	WH-SHF12F6E5	12,0	4,46	3,895	0,110	0,78	12,0	600	2	€ 1.229
	WH-UH09FE8	WH-SHF09F3E8	9,0	4,64	3,895	0,110	0,78	9,0	600	2	€ 932
	WH-UH12FE8	WH-SHF12F9E8	12,0	4,46	3,895	0,110	0,78	12,0	600	2	€ 1.229
	WH-MHF09G3E5	-	9,0	4,64	3,895	0,110	0,78	9,0	600	2	€ 932
	WH-MHF12G6E5	-	12,0	4,46	3,895	0,110	0,78	12,0	600	2	€ 1.229
	WH-MHF09G3E8	-	9,0	4,64	3,895	0,110	0,78	9,0	600	2	€ 932
	WH-MHF12G9E8	-	12,0	4,46	3,895	0,110	0,78	12,0	600	2	€ 1.229
T-CAP	WH-UX09HE5	WH-ADC1216H6E5	9,0	4,84	3,895	0,110	0,79	9,0	600	2	€ 943
	WH-UX12HE5	WH-ADC1216H6E5	12,0	4,74	3,895	0,110	0,79	12,0	600	2	€ 1.250
	WH-UX09HE8	WH-ADC0916H9E8	9,0	4,84	3,895	0,110	0,79	9,0	600	2	€ 943
	WH-UX12HE8	WH-ADC0916H9E8	12,0	4,74	3,895	0,110	0,79	12,0	600	2	€ 1.250
	WH-UX16HE8	WH-ADC0916H9E8	16,0	4,28	3,895	0,110	0,77	16,0	600	2	€ 1.619
	WH-UX09HE5	WH-SXC09H3E5	9,0	4,84	3,895	0,110	0,79	9,0	600	2	€ 943
	WH-UX12HE5	WH-SXC12H6E5	12,0	4,74	3,895	0,110	0,79	12,0	600	2	€ 1.250
	WH-UX09HE8	WH-SXC09H3E8	9,0	4,84	3,895	0,110	0,79	9,0	600	2	€ 943
	WH-UX12HE8	WH-SXC12H9E8	12,0	4,74	3,895	0,110	0,79	12,0	600	2	€ 1.250
	WH-UX16HE8	WH-SXC16H9E8	16,0	4,28	3,895	0,110	0,77	16,0	600	2	€ 1.619
	WH-MXC09H3E5	-	9,0	4,84	3,895	0,110	0,79	9,0	600	2	€ 943
	WH-MXC12H6E5	-	12	4,74	3,895	0,110	0,79	12,0	600	2	€ 1.250
	WH-MXC09H3E8	-	9,0	4,84	3,895	0,110	0,79	9,0	600	2	€ 943
	WH-MXC12H9E8	-	12,0	4,74	3,895	0,110	0,79	12,0	600	2	€ 1.250
	WH-MXC16H9E8	-	16,0	4,28	3,895	0,110	0,77	16,0	600	2	€ 1.619
SQ	WH-UQ09HE8	WH-ADC0916H9E8	9,0	4,84	3,895	0,110	0,79	9,0	600	2	€ 943
	WH-UQ12HE8	WH-ADC0916H9E8	12,0	4,74	3,895	0,110	0,79	12,0	600	2	€ 1.250
	WH-UQ16HE8	WH-ADC0916H9E8	16,0	4,28	3,895	0,110	0,77	16,0	600	2	€ 1.619
	WH-UQ09HE8	WH-SQC09H3E8	9,0	4,84	3,895	0,110	0,79	9,0	600	2	€ 943
	WH-UQ12HE8	WH-SQC12H9E8	12,0	4,74	3,895	0,110	0,79	12,0	600	2	€ 1.250
	WH-UQ16HE8	WH-SQC16H9E8	16,0	4,28	3,895	0,110	0,77	16,0	600	2	€ 1.619
LT	WH-UD03HE5	WH-ADC0309H3E5	3,0	5,00	3,895	0,110	0,80	3,0	600	2	€ 317
	WH-UD03HE5	WH-ADC0309H3E5B	3,0	5,00	3,895	0,110	0,80	3,0	600	2	€ 317
	WH-UD05HE5	WH-ADC0309H3E5	5,0	4,63	3,895	0,110	0,78	5,0	600	2	€ 517
	WH-UD05HE5	WH-ADC0309H3E5B	5,0	4,63	3,895	0,110	0,78	5,0	600	2	€ 517
	WH-UD07HE5	WH-ADC0309H3E5	7,0	4,46	3,895	0,110	0,78	7,0	600	2	€ 717
	WH-UD07HE5	WH-ADC0309H3E5B	7,0	4,46	3,895	0,110	0,78	7,0	600	2	€ 717
	WH-UD09HE5	WH-ADC0309H3E5	9,0	4,13	3,895	0,110	0,76	9,0	600	2	€ 900
	WH-UD09HE5	WH-ADC0309H3E5B	9,0	4,13	3,895	0,110	0,76	9,0	600	2	€ 900
	WH-UD12HE5	WH-ADC1216H6E5	12,0	4,74	3,895	0,110	0,79	12,0	600	2	€ 1.250
	WH-UD16HE5	WH-ADC1216H6E5	16,0	4,28	3,895	0,110	0,77	16,0	600	2	€ 1.619
	WH-UD09HE8	WH-ADC0916H9E8	9,0	4,85	3,895	0,110	0,79	9,0	600	2	€ 943
	WH-UD12HE8	WH-ADC0916H9E8	12,0	4,75	3,895	0,110	0,79	12,0	600	2	€ 1.251
	WH-UD16HE8	WH-ADC0916H9E8	16,0	4,28	3,895	0,110	0,77	16,0	600	2	€ 1.619
	WH-UD03HE5	WH-SDC03H3E5	3,0	5,00	3,895	0,110	0,80	3,0	600	2	€ 317
	WH-UD05HE5	WH-SDC05H3E5	5,0	4,63	3,895	0,110	0,78	5,0	600	2	€ 517
	WH-UD07HE5	WH-SDC07H3E5	7,0	4,46	3,895	0,110	0,78	7,0	600	2	€ 717
	WH-UD09HE5	WH-SDC09H3E5	9,0	4,13	3,895	0,110	0,76	9,0	600	2	€ 900
	WH-UD12HE5	WH-SDC12H6E5	12,0	4,74	3,895	0,110	0,79	12,0	600	2	€ 1.250
	WH-UD16HE5	WH-SDC16H6E5	16,0	4,28	3,895	0,110	0,77	16,0	600	2	€ 1.619
	WH-UD09HE8	WH-SDC09H3E8	9,0	4,84	3,895	0,110	0,79	9,0	600	2	€ 943
	WH-UD12HE8	WH-SDC12H9E8	12,0	4,74	3,895	0,110	0,79	12,0	600	2	€ 1.250
	WH-UD16HE8	WH-SDC16H9E8	16,0	4,28	3,895	0,110	0,77	16,0	600	2	€ 1.619
	WH-MDC05H3E5	-	5,0	5,08	3,895	0,110	0,80	5,0	600	2	€ 530
	WH-MDC07H3E5	-	7,0	4,52	3,895	0,110	0,78	7,0	600	2	€ 720
	WH-MDC09H3E5	-	9,0	4,29	3,895	0,110	0,77	9,0	600	2	€ 911
	WH-MDC12H6E5	-	12,0	4,74	3,895	0,110	0,79	12	600	2	€ 1.250
	WH-MDC16H6E5	-	16,0	4,28	3,895	0,110	0,77	16	600	2	€ 1.619

* Se incentivo totale < 5000€ viene restituito in 1 anno e non in 2 anni.

Pompe di calore Aria-Acqua < 35 kWt

COP 4,1 x 0,95 = 3,895

aria 7°C

acqua 35°C

Tipo di pompa di calore Ambiente esterno/interno	COP minimo	Denominazione commerciale	Potenza termica utile P _n	Coefficiente Ci
aria/aria	3,9	split/multisplit	≤ 35 kW _t	0,060
			> 35 kW _t	0,045
		VRF/VRV	≤ 35 kW _t	0,120
			> 35 kW _t	0,045
aria/acqua	4,1	aria/acqua	≤ 35 kW _t	0,110
	3,8		> 35 kW _t	0,045
aria/aria	GUE 1,46	split/multisplit	≤ 35 kW _t	0,080
			> 35 kW _t	0,055
		VRF/VRV	≤ 35 kW _t	0,150
			> 35 kW _t	0,045

Coefficiente di utilizzo dipende dalla zona climatica

Zona climatica	Q _{uf}
A	600
B	850
C	1100
D	1400
E	1700
F	1800



PANASONIC ITALIA Branch Office di
PANASONIC MARKETING EUROPE GMBH
20126 Milano – Viale dell’Innovazione, 3

CERTIFICAZIONE 2018

DM 16/02/2016 – CONTO TERMICO 2.0

Aggiornamento della disciplina per l'incentivazione di interventi di piccole dimensioni per l'incremento dell'efficienza energetica e per la produzione di energia termica da fonti rinnovabili

DICHIARAZIONE DEL PRODUTTORE

In conformità al Decreto Ministeriale del 16 Febbraio 2016 Panasonic Italia dichiara che:

Le pompe di calore elettriche ad alta efficienza tipologia aria/acqua, riportate nella tabella allegata alla presente certificazione, rientrano nei parametri indicati nel DM 16/02/2016 in quanto soddisfano i valori minimi di COP (coefficiente di prestazione A7/W35) indicati nell'allegato II del decreto indicato. Le stesse possono accedere alla Tariffa sperimentale D1 come indicato nella delibera 205/2014/R/eel emessa dall'Autorità per l'energia elettrica il gas e il sistema idrico.

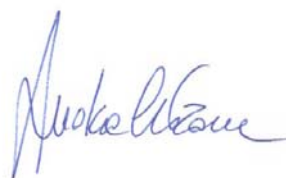
Le prestazioni sono state misurate secondo la norma UNI EN 14511:2004

Milano, 07/05/2018

PANASONIC ITALIA

Allegati:

Elenco dei modelli conformi al D.M.



Andrea Cetrone
Country Manager

PANASONIC ITALIA
Branch Office di Panasonic Marketing Europe GMBH

LINEA AQUAREA POMPE DI CALORE ARIA-ACQUA			Potenza termica kW_t	COP (A7/W35)	COP min (5% Tolleranza inverter)
TIPO	ESTERNA	INTERNA			
HT	WH-UH09FE5	WH-SHF09F3E5	9,0	4,64	3,895
	WH-UH12FE5	WH-SHF12F6E5	12,0	4,46	3,895
	WH-UH09FE8	WH-SHF09F3E8	9,0	4,64	3,895
	WH-UH12FE8	WH-SHF12F9E8	12,0	4,46	3,895
	WH-MHF09G3E5	-	9,0	4,64	3,895
	WH-MHF12G6E5	-	12,0	4,46	3,895
	WH-MHF09G3E8	-	9,0	4,64	3,895
	WH-MHF12G9E8	-	12,0	4,46	3,895
T-CAP	WH-UX09HE5	WH-ADC1216H6E5	9,0	4,85	3,895
	WH-UX12HE5	WH-ADC1216H6E5	12,0	4,75	3,895
	WH-UX09HE8	WH-ADC0916H9E8	9,0	4,85	3,895
	WH-UX12HE8	WH-ADC0916H9E8	12,0	4,75	3,895
	WH-UX16HE8	WH-ADC0916H9E8	16,0	4,28	3,895
	WH-UX09HE5	WH-SXC09H3E5	9,0	4,84	3,895
	WH-UX12HE5	WH-SXC12H6E5	12,0	4,74	3,895
	WH-UX09HE8	WH-SXC09H3E8	9,0	4,84	3,895
	WH-UX12HE8	WH-SXC12H9E8	12,0	4,74	3,895
	WH-UX16HE8	WH-SXC16H9E8	16,0	4,28	3,895
	WH-MXC09H3E5	-	9,0	4,84	3,895
	WH-MXC12H6E5	-	12	4,74	3,895
	WH-MXC09H3E8	-	9,0	4,84	3,895
	WH-MXC12H9E8	-	12,0	4,74	3,895
	WH-MXC16H9E8	-	16,0	4,28	3,895

<u>LINEA AQUAREA POMPE DI CALORE ARIA-ACQUA</u>			Potenza termica kW_t	COP (A7/W35)	COP min (5% Tolleranza inverter)
TIPO	ESTERNA	INTERNA			
LT	WH-UD03HE5	WH-ADC0309H3E5	3,0	5,00	3,895
	WH-UD05HE5	WH-ADC0309H3E5	5,0	4,63	3,895
	WH-UD07HE5	WH-ADC0309H3E5	7,0	4,46	3,895
	WH-UD09HE5	WH-ADC0309H3E5	9,0	4,13	3,895
	WH-UD12HE5	WH-ADC1216H6E5	12,0	4,75	3,895
	WH-UD16HE5	WH-ADC1216H6E5	16,0	4,28	3,895
	WH-UD09HE8	WH-ADC0916H9E8	9,0	4,85	3,895
	WH-UD12HE8	WH-ADC0916H9E8	12,0	4,75	3,895
	WH-UD16HE8	WH-ADC0916H9E8	16,0	4,28	3,895
	WH-UD03HE5	WH-SDC03H3E5	3,0	5,00	3,895
	WH-UD05HE5	WH-SDC05H3E5	5,0	4,63	3,895
	WH-UD07HE5	WH-SDC07H3E5	7,0	4,46	3,895
	WH-UD09HE5	WH-SDC09H3E5	9,0	4,13	3,895
	WH-UD12HE5	WH-SDC12H6E5	12,0	4,74	3,895
	WH-UD16HE5	WH-SDC16H6E5	16,0	4,28	3,895
	WH-UD09HE8	WH-SDC09H3E8	9,0	4,84	3,895
	WH-UD12HE8	WH-SDC12H9E8	12,0	4,74	3,895
	WH-UD16HE8	WH-SDC16H9E8	16,0	4,28	3,895
	WH-MDC05H3E5	-	5,0	5,08	3,895
	WH-MDC07H3E5	-	6,0	4,52	3,895
	WH-MDC09H3E5	-	9,0	4,29	3,895
	WH-MDC12H6E5	-	12,0	4,74	3,895
	WH-MDC16H6E5	-	16,0	4,28	3,895