

3. Specifications

3.1 WH-WXG09ME8

Item		Unit	Outdoor Unit		
Performance Test Condition			EN 14511		
			EN 14825		
Cooling Capacity		Condition (Ambient/Water)	A35W7		
		kW	9.00		
		BTU/h	30700		
Cooling EER		W/W	3.61		
Heating Capacity		Condition (Ambient/Water)	A7W35	A2W35	
		kW	9.00	9.00	
		BTU/h	30700	30700	
Heating COP		W/W	5.23	3.81	
Heating Erp	DHW		Warmer	Average	Colder
	Application				
	COP / nwh				
	AEC				
Noise Level		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		dB (A)	Cooling: -	Heating: -	Heating: -
		Power Level dB	Cooling: 60***	Heating: 58*** Heating: 52***	Heating: 58*** Heating: 52***
Air Flow		m³/min (ft³/min)	Cooling: 97.0 (3426) Heating: 83.0 (2931)		
Refrigeration Control Device			Expansion Valve		
Refrigeration Oil		cm³	PZ68S (1600)		
Refrigerant		kg (oz)	R290, 1.78 (62.8) (Pre-charged) (-) (Maximum)		
F-GAS	GWP		3		
	CO²eq (ton) (Precharged / Maximum)		0.006 / -		
Dimension	Height	mm (inch)	1520 (59-27/32)		
	Width	mm (inch)	1200 (47-1/4)		
	Depth	mm (inch)	430 (16-59/64)		
Net Weight		kg (lbs)	163 (359)		
Pipe Diameter (Inner)		mm	25		
Standard Length		m (ft)	5.0 (16.4)		
Maximum Pipe Length		m (ft)	30.0 (98.4)		
I/D & O/D Height Difference		m (ft)	30.0 (98.4)		
Water Pipe Connector	Indoor	inch	1-1/4		
	Outdoor		1-1/4		
Compressor	Type		Hermetic Motor Compressor (Involute Scroll)		
	Motor Type		Synchronous Electric Motor (6-poles)		
	Rated Output	kW	3.10		
Fan	Type		Propeller Fan		
	Material		PP		
	Motor Type		DC (8-poles)		
	Input Power	kW	-		
	Output Power	W	120 × 2		
	Fan Speed	rpm	Cooling: 510 Heating: 400		

Item		Unit	Outdoor Unit		
Heat Exchanger	Fin material		Aluminium (Blue Coat)		
	Fin Type		Corrugated Fin		
	Row × Stage × FPI		2 × 58 × 19		
	Size (W × H × L)	mm	44 × 1473.2 × 868.2:902.7		
Hot Water Coil	Type		Brazed Plate		
	No. of Plates		36		
	Size (W × H × L)	mm	76.2 × 524 × 117		
	Water Flow Rate	l/min (m³/h)	Cooling: 25.8 (1.5) Heating: 25.8 (1.5)		
Power Source (Phase, Voltage, Cycle)		Ø	Three		
		V	400		
		Hz	50		
Input Power		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		kW	Cooling: 2.49	Heating: 1.72	Heating: 2.36
Maximum Input Power For Heatpump System		kW	8.51		
Power Supply 1 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)			3Ø / 12.8 / 8.51k		
Power Supply 2 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)			3Ø / 13.1 / 9.00k		
Power Supply 3 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)			- / - / -		
Starting Current		A	3.8		
Running Current		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		A	Cooling: 3.8	Heating: 2.6	Heating: 3.6
Maximum Current For Heatpump System		A	12.8		
Power Factor Power factor means total figure of compressor and outdoor fan motor.		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		%	Cooling: 95	Heating: 96	Heating: 95
Power Cord	Number of core		-		
	Length	m (ft)	-		
Thermostat			Electronic Control		
Protection Device			Electronic Control		
Pressure Relief Valve Water Circuit		kPa	Open: 400, Close: 280 and below		
Operation Range	Outdoor Ambient	°C (min. / max.)	Cooling: 10 / 43 Heating (Tank): -28 / 43 Heating (Circuit): -28 / 35		
	Water Outlet	°C (min. / max.)	Cooling: 5 / 20 Heating (Tank): - / 65*3, Heating (Circuit): 20 / 55 (Below Ambient -25 °C) *4 Heating (Circuit): 20 / 75 (Above Ambient -15 °C) *4		
Internal Pressure Differential		kPa	Cooling: 22.0 Heating: 22.0		
Pump	Motor Type		Brushless DC Motor (Sensorless vector control system)		
	No. of Speed		Variable speed		
	Input Power	W	175		
Flow Sensor	Type		Vortex (Piezoelectric sensor)		
	Measuring range	l/min	5 ~ 60		

3.2 WH-WXG12ME8

Item		Unit	Outdoor Unit				
Performance Test Condition			EN 14511				
			EN 14825				
Cooling Capacity		Condition (Ambient/Water)	A35W7				
		kW	9.00				
		BTU/h	30700				
Cooling EER		W/W	3.61				
Heating Capacity		Condition (Ambient/Water)	A7W35		A2W35		
		kW	12.00		12.00		
		BTU/h	40900		40900		
Heating COP		W/W	5.06		3.54		
Heating Erp	DHW		Warmer	Average	Colder		
	Application						
	COP / nwh		(W/W) / %		3.30 / 132	3.00 / 123	2.20 / 88
	AEC		kWh		753	831	1141
Noise Level		Condition (Ambient/Water)	A35W7	A7W35	A2W35		
		dB (A)	Cooling: -	Heating: -	Heating: -		
		Power Level dB	Cooling: 60***	Heating: 59*** Heating: 53***	Heating: 59*** Heating: 53***		
Air Flow		m³/min (ft³/min)	Cooling: 97.0 (3426) Heating: 92.0 (3249)				
Refrigeration Control Device			Expansion Valve				
Refrigeration Oil		cm³	PZ68S (1600)				
Refrigerant		kg (oz)	R290, 1.78 (62.8) (Pre-charged) (-) (Maximum)				
F-GAS	GWP		3				
	CO²eq (ton) (Precharged / Maximum)		0.006 / -				
Dimension	Height	mm (inch)	1520 (59-27/32)				
	Width	mm (inch)	1200 (47-1/4)				
	Depth	mm (inch)	430 (16-59/64)				
Net Weight		kg (lbs)	163 (359)				
Pipe Diameter (Inner)		mm	32				
Standard Length		m (ft)	5.0 (16.4)				
Maximum Pipe Length		m (ft)	30.0 (98.4)				
I/D & O/D Height Difference		m (ft)	30.0 (98.4)				
Water Pipe Connector	Indoor	inch	1-1/4				
	Outdoor		1-1/4				
Compressor	Type		Hermetic Motor Compressor (Involute Scroll)				
	Motor Type		Synchronous Electric Motor (6-poles)				
	Rated Output	kW	3.10				
Fan	Type		Propeller Fan				
	Material		PP				
	Motor Type		DC (8-poles)				
	Input Power	kW	-				
	Output Power	W	120 × 2				
	Fan Speed	rpm	Cooling: 510 Heating: 420				

Item		Unit	Outdoor Unit		
Heat Exchanger	Fin material		Aluminium (Blue Coat)		
	Fin Type		Corrugated Fin		
	Row × Stage × FPI		2 × 58 × 19		
	Size (W × H × L)	mm	44 × 1473.2 × 868.2:902.7		
Hot Water Coil	Type		Brazed Plate		
	No. of Plates		36		
	Size (W × H × L)	mm	76.2 × 524 × 117		
	Water Flow Rate	l/min (m³/h)	Cooling: 25.8 (1.5) Heating: 34.4 (2.1)		
Power Source (Phase, Voltage, Cycle)		Ø	Three		
		V	400		
		Hz	50		
Input Power		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		kW	Cooling: 2.49	Heating: 2.37	Heating: 3.39
Maximum Input Power For Heatpump System		kW	9.84		
Power Supply 1 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)			3Ø / 14.8 / 9.84k		
Power Supply 2 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)			3Ø / 13.1 / 9.00k		
Power Supply 3 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)			- / - / -		
Starting Current		A	3.8		
Running Current		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		A	Cooling: 3.8	Heating: 3.6	Heating: 5.2
Maximum Current For Heatpump System		A	14.8		
Power Factor Power factor means total figure of compressor and outdoor fan motor.		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		%	Cooling: 95	Heating: 96	Heating: 95
Power Cord	Number of core		-		
	Length	m (ft)	-		
Thermostat			Electronic Control		
Protection Device			Electronic Control		
Pressure Relief Valve Water Circuit		kPa	Open: 400, Close: 280 and below		
Operation Range	Outdoor Ambient	°C (min. / max.)	Cooling: 10 / 43 Heating (Tank): -28 / 43 Heating (Circuit): -28 / 35		
	Water Outlet	°C (min. / max.)	Cooling: 5 / 20 Heating (Tank): - / 65*3, Heating (Circuit): 20 / 55 (Below Ambient -25 °C) *4 Heating (Circuit): 20 / 75 (Above Ambient -15 °C) *4		
Internal Pressure Differential		kPa	Cooling: 22.0 Heating: 39.0		
Pump	Motor Type		Brushless DC Motor (Sensorless vector control system)		
	No. of Speed		Variable Speed		
	Input Power	W	175		
Flow Sensor	Type		Vortex (Piezoelectric sensor)		
	Measuring range	l/min	5 ~ 60		

3.3 WH-WXG16ME8

Item		Unit	Outdoor Unit		
Performance Test Condition			EN 14511		
			EN 14825		
Cooling Capacity		Condition (Ambient/Water)	A35W7		
		kW	9.00		
		BTU/h	30700		
Cooling EER		W/W	3.61		
Heating Capacity		Condition (Ambient/Water)	A7W35		A2W35
		kW	16.00		16.00
		BTU/h	54600		54600
Heating COP		W/W	4.89		3.30
Heating Erp	DHW		Warmer	Average	Colder
	Application				
	COP / nwh				
	AEC				
Noise Level		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		dB (A)	Cooling: -	Heating: -	Heating: -
		Power Level dB	Cooling: 60***	Heating: 62*** Heating: 57***	Heating: 62*** Heating: 57***
Air Flow		m³/min (ft³/min)	Cooling: 97.0 (3426) Heating: 108.0 (3814)		
Refrigeration Control Device			Expansion Valve		
Refrigeration Oil		cm³	PZ68S (1600)		
Refrigerant		kg (oz)	R290, 1.77 (62.4) (Pre-charged) (-) (Maximum)		
F-GAS	GWP		3		
	CO²eq (ton) (Precharged / Maximum)		0.006 / -		
Dimension	Height	mm (inch)	1520 (59-27/32)		
	Width	mm (inch)	1200 (47-1/4)		
	Depth	mm (inch)	430 (16-59/64)		
Net Weight		kg (lbs)	165 (364)		
Pipe Diameter (Inner)		mm	32		
Standard Length		m (ft)	5.0 (16.4)		
Maximum Pipe Length		m (ft)	30.0 (98.4)		
I/D & O/D Height Difference		m (ft)	30.0 (98.4)		
Water Pipe Connector	Indoor	inch	1-1/4		
	Outdoor		1-1/4		
Compressor	Type		Hermetic Motor Compressor (Involute Scroll)		
	Motor Type		Synchronous Electric Motor (6-poles)		
	Rated Output	kW	3.10		
Fan	Type		Propeller Fan		
	Material		PP		
	Motor Type		DC (8-poles)		
	Input Power	kW	-		
	Output Power	W	120 × 2		
	Fan Speed	rpm	Cooling: 510 Heating: 480		

Item		Unit	Outdoor Unit		
Heat Exchanger	Fin material		Aluminium (Blue Coat)		
	Fin Type		Corrugated Fin		
	Row × Stage × FPI		2 × 58 × 19		
	Size (W × H × L)	mm	44 × 1473.2 × 868.2:902.7		
Hot Water Coil	Type		Brazed Plate		
	No. of Plates		44		
	Size (W × H × L)	mm	72.0 × 535 × 120.5		
	Water Flow Rate	l/min (m³/h)	Cooling: 25.8 (1.5) Heating: 45.9 (2.8)		
Power Source (Phase, Voltage, Cycle)		Ø	Three		
		V	400		
		Hz	50		
Input Power		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		kW	Cooling: 2.49	Heating: 3.27	Heating: 4.85
Maximum Input Power For Heatpump System		kW	12.80		
Power Supply 1 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)			3Ø / 19.0 / 12.8k		
Power Supply 2 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)			3Ø / 13.1 / 9.00k		
Power Supply 3 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)			- / - / -		
Starting Current		A	4.9		
Running Current		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		A	Cooling: 3.8	Heating: 4.9	Heating: 7.3
Maximum Current For Heatpump System		A	19.0		
Power Factor Power factor means total figure of compressor and outdoor fan motor.		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		%	Cooling: 95	Heating: 97	Heating: 96
Power Cord	Number of core		-		
	Length	m (ft)	-		
Thermostat			Electronic Control		
Protection Device			Electronic Control		
Pressure Relief Valve Water Circuit		kPa	Open: 400, Close: 280 and below		
Operation Range	Outdoor Ambient	°C (min. / max.)	Cooling: 10 / 43 Heating (Tank): -28 / 43 Heating (Circuit): -28 / 35		
	Water Outlet	°C (min. / max.)	Cooling: 5 / 20 Heating (Tank): - / 65*3, Heating (Circuit): 20 / 55 (Below Ambient -25 °C) *4 Heating (Circuit): 20 / 75 (Above Ambient -15 °C) *4		
Internal Pressure Differential		kPa	Cooling: 22.0 Heating: 63.0		
Pump	Motor Type		Brushless DC Motor (Sensorless vector control system)		
	No. of Speed		Variable Speed		
	Input Power	W	175		
Flow Sensor	Type		Vortex (Piezoelectric sensor)		
	Measuring range	l/min	5 ~ 60		