

2. SPECIFICATIONS

2.1 Specifications of product

(1) Heat pump water heater

Item		Model	ESA30EH2-25
Power source		—	3 Phase 380V±5%, 400V±5%, 415V±5%, 50/60Hz
Operation to top up (In intermediate season)*1	Heating capacity	kW	30.0
	(Water amount)	L/min	8.97
	(Power consumption)	kW	6.98
	COP	—	4.30
Operation to top up (In cold season)*2	Heating capacity	kW	30.0
	(Water amount)	L/min	5.06
	(Power consumption)	kW	10.73
	COP	—	2.80
Operating sound pressure (In intermediate season)*1, 3		dB(A)	58
Operating sound power (In intermediate season)*1		dB(A)	70
Exterior dimensions	Height	mm	1690
	Width	mm	1350
	Depth	mm	720 + 35 (Water pipe connection)
Current	Max.	A	21
	Starting	A	5
Unit weight		kg	375 (During operation 385)
Color			Stucco white (4.2 Y 7.5/1.1 approx.)
Compressor	Type×Pcs.		Hermetic inverter compressor×1
	Nominal output	kW	6.4
Refrigerant	Type		R744 (CO ₂)
	Charged amount	kg	8.5
Refrigerant oil	Type		MA68
	Charged volume	cc	1200
Crankcase heater		W	20
Anti-freezing heater	for water pipe	W	21×3
	for drain pan	W	40×2
	for drain hose	W	16×3
Heat exchanger ,Air side			Copper pipe straight fin type
Heat exchanger ,Water side (Gas cooler)	Type		Copper pipe coil, indirect heat exchanger
	Possession quantity of water	kg	10
Fan	Type		Axial flow type (direct coupled motor)×2
	Output×Pcs.	W	386×2
	Air volume	m ³ /min	260
	External static pressure	Pa	50
Water pump	Type×Output		Non-self-suction spiral type inverter pump×95W
	Materials contacting to water		PPS, SUS 306
	Actual pump head	m (kPa)	5m(49kPa) @17L/min
Usage temperature range	Outdoor air temperature	℃	-25 to +43
	Feed water inlet temperature	℃	Top up 5-35, Warm up 35-63
	Hot water outlet temperature	℃	60-90
Water pressure range		kPa	500 or lower (Keep water pressure more than 0kPa at the inlet of heat pump water heater)
Defrost			Hot gas type
Vibration and sound proofing devices			Compressor ;placed on anti-vibration rubber and wrapped with sound insulation
Protection devices			High pressure switch, over current protection, power transistor overheat protection and anomalous high pressure protection
Pipe connection	Feed water inlet		Rc3/4 (Copper 20A)*4
	Hot water outlet		Rc3/4 (Copper 20A)*4
	Drain water outlet		Rc3/4 (Copper 20A)*4
Electric wiring	Earth leakage breaker		30A, 30mA, 0.1sec.
	Power cable size		□8mm ² ×4 (Length70m)
	Molded-case circuit breaker		Rated current 30A, switch capacity 30A
	Grounding wire size		M6
	Remote control wire size		0.3mm ² ×2 cores shielding wire (MVVS)
Design pressure		MPa	High pressure; 14.0 Low pressure; 8.5
IP code			IP24