

Q-ton

This air-to-water heat pump boasts high efficiency and low carbon emissions, ideal for commercial applications.



Technical Specifications

Item		Model	ESA30E-25
Power supply			3-phase 380V ±5%, 400V ±5%, 415V ±5% 50Hz
Operation to top up (In intermediate season)	Heating capacity	kW	30
	Water amount	Liter/min	8.97
	Power consumption	kW	6.98
	COP	–	4.3
Operation to top up (In cold region)	Heating capacity	kW	30
	Water amount	Liter/min	5.06
	Power consumption	kW	10.73
	COP	–	2.8
Operation sound		dB(A)	58
Outside dimension	Height	mm	1,690
	Width	mm	1,350
	Depth	mm	720 + 35 (Water pipe connection)
Current	Max	A	21
	Starting	A	5
Unit weight		kg	375 (During operation 385)
Colour			Stucco white (4.2Y7.5/1.1 approx.)
Compressor	Type x Pcs		Hermetic inverter compressor x 1
	Nominal output	kW	6.4
Refrigerant	Type		R744 (CO2)
	Charged amount	kg	8.5

Item		Model	ESA30E-25
Refrigerant oil	Type		MA68
	Charged volume	cc	1200
Crankcase heater		W	20
Anti-freezing heater	for water pipe	W	48 x 3
	for drain pan	W	40 x 2
	for drain hose	W	40 x 2 + 48
Heat exchanger, Air side			Copper pipe straight fin type
Heat exchanger, Water side (Gas cooler)			Copper pipe coil type
Fan	Type		Axial flow type (direct coupled motor) x 2
	Output x Pcs	W	386 x 2
	Air volume	m ³ /min	260
Water pump	Type x output		Non-self-suction spiral type inverter pump x 100W
	Materials contacting to water		Bronze, SCS13
	Actual pump head	m (kPa)	5m (49kPa) @17Liter/min
Usage temp range	Outdoor air temp	°C	-25 to +43
	Feed water inlet temp	°C	5-63
	Hot water outlet temp	°C	60-90
Water pressure range		kPa	500 or lower
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 size	Feed water inlet		Rc3/4 (Copper 20A)
	Hot water outlet		Rc3/4 (Copper 20A)
	Drain water outlet		Rc3/4 (Copper 20A)
Electric wiring	Earth leakage breaker		30A, 30mA, 0.1 sec
	Power cable size		14 x 4 (Length 40m)
	Moulded-case circuit breaker		Rated current: 30A, switch capacity: 30A
	Grounding wire size		M6
	Remote controller wire size		0.3mm ² x 2 cores shielding wire (MVVS)
Design pressure		MPa	High pressure: 14.0, Low pressure: 8.5
IP code			IP24