

Model name				ERSD-VM2C	ERSC-MEC	ERSC-VM2C	EHSD-YM9C	EHSD-MC	EHPX-VM2C	EHPX-YM9C	EHPX-VM6C		
Dimensions	Without package	Height	mm	800	800	800	800	800	800	800	800		
		Width	mm	530	530	530	530	530	530	530	530		
		Depth	mm	360	360	360	360	360	360	360	360		
	With package	Height	mm	990	990	990	990	990	990	990	990		
		Width	mm	600	600	600	600	600	600	600	600		
		Depth	mm	560	560	560	560	560	560	560	560		
Casing	Munsell	-	6.2PB 9/0.9	6.2PB 9/0.9	6.2PB 9/0.9	6.2PB 9/0.9	6.2PB 9/0.9	6.2PB 9/0.9	6.2PB 9/0.9	6.2PB 9/0.9			
	RAL code	-	260 90 05	260 90 05	260 90 05	260 90 05	260 90 05	260 90 05	260 90 05	260 90 05			
	Material	-	Pre-coated metal	Pre-coated metal	Pre-coated metal	Pre-coated metal	Pre-coated metal	Pre-coated metal	Pre-coated metal	Pre-coated metal			
Product weight (empty)			kg	45	43	49	45	43	37	38	38		
Product weight (full)			kg	51	50	56	51	49	42	43	43		
Gross weight			kg	58	56	62	58	56	50	51	51		
Water volume of heating circuit in the unit *1			L	5.5	6.4	6.4	5.2	5.2	4.5	4.5	4.5		
Type of Installation			-	Wall mounted	Wall mounted	Wall mounted	Wall mounted	Wall mounted	Wall mounted	Wall mounted	Wall mounted		
Electrical data	Control board *2 (Including 4 pumps)	Power supply	Ph	~N	~N	~N	~N	~N	~N	~N	~N		
			V	230	230	230	230	230	230	230	230		
			Hz	50	50	50	50	50	50	50	50		
			kW	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30		
		Booster heater	Power supply	Current	A	1.95	1.95	1.95	1.95	1.95	1.95	1.95	
				Breaker	A	10	10	10	10	10	10	10	
				Ph	~N	-	~N	3~	-	~N	3~	~N	
				V	230	-	230	400	-	230	400	230	
	Immersion heater	Power supply	Hz	50	-	50	50	-	50	50	50		
			Capacity	kW	2	-	2	3+6	-	2	3+6	2+4	
			Heater step	-	1	-	1	3	-	1	3	3	
			Current	A	9	-	9	13	-	9	13	26	
		Immersion heater	Power supply	Breaker	A	16	-	16	16	-	16	16	32
				Ph	-	-	-	-	-	-	-	-	
				V	-	-	-	-	-	-	-	-	
				Hz	-	-	-	-	-	-	-	-	
	Immersion heater	Power supply	Capacity	kW	-	-	-	-	-	-	-	-	
			Current	A	-	-	-	-	-	-	-	-	
			Breaker	A	-	-	-	-	-	-	-	-	
			Breaker	A	-	-	-	-	-	-	-	-	
	Water circulation pump (Primary circuit)	Type	-	DC motor									
		Input (10/20/27.7 L/min)*3	Speed 1	W	19/26/32	19/26/32	19/26/32	18/25/29	18/25/29	18/25/29	18/25/29	18/25/29	
		Speed 2	W	26/37/45	26/37/45	26/37/45	25/34/41	25/34/41	25/34/41	25/34/41	25/34/41		
		Speed 3	W	34/49/60	34/49/60	34/49/60	34/46/56	34/46/56	34/46/56	34/46/56	34/46/56		
Speed 4		W	45/65/70	45/65/70	45/65/70	45/60/63	45/60/63	45/60/63	45/60/63	45/60/63			
Speed 5		W	57/70/70	57/70/70	57/70/70	57/63/63	57/63/63	57/63/63	57/63/63	57/63/63			
Current (10/20/27.7 L/min)*3		Speed 1	A	0.2/0.2/0.3	0.2/0.2/0.3	0.2/0.2/0.3	0.1/0.2/0.2	0.1/0.2/0.2	0.1/0.2/0.2	0.1/0.2/0.2	0.1/0.2/0.2		
		Speed 2	A	0.2/0.3/0.4	0.2/0.3/0.4	0.2/0.3/0.4	0.2/0.3/0.3	0.2/0.3/0.3	0.2/0.3/0.3	0.2/0.3/0.3	0.2/0.3/0.3		
		Speed 3	A	0.3/0.4/0.5	0.3/0.4/0.5	0.3/0.4/0.5	0.3/0.3/0.4	0.3/0.3/0.4	0.3/0.3/0.4	0.3/0.3/0.4	0.3/0.3/0.4		
		Speed 4	A	0.4/0.5/0.6	0.4/0.5/0.6	0.4/0.5/0.6	0.3/0.4/0.5	0.3/0.4/0.5	0.3/0.4/0.5	0.3/0.4/0.5	0.3/0.4/0.5		
	Speed 5	A	0.5/0.6/0.6	0.5/0.6/0.6	0.5/0.6/0.6	0.4/0.5/0.5	0.4/0.5/0.5	0.4/0.5/0.5	0.4/0.5/0.5	0.4/0.5/0.5			
Head difference	0L/min@Speed 5	m	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0			
	20L/min@Speed 5	m	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9			
	27.7L/min@Speed 5	m	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7			
Water circulation pump (DHW circuit)	Input	Speed I	W	-	-	-	-	-	-	-	-		
		Speed II (Default setting)	W	-	-	-	-	-	-	-	-		
		Speed III	W	-	-	-	-	-	-	-	-		
	Current	Speed I	A	-	-	-	-	-	-	-	-		
		Speed II (Default setting)	A	-	-	-	-	-	-	-	-		
		Speed III	A	-	-	-	-	-	-	-	-		
	Flow rate	Speed I	L/min	-	-	-	-	-	-	-	-		
		Speed II (Default setting)	L/min	-	-	-	-	-	-	-	-		
		Speed III	L/min	-	-	-	-	-	-	-	-		
Flow rate	Primary circuit	Max.*4	L/min	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7		
		Min.*5	L/min	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0		
Heat exchanger	Refrigerant - Primary circuit water			-	Plate	Plate	Plate	Plate	-	-	-		
	Primary circuit water - Domestic hot water			-	-	-	-	-	-	-	-		
Domestic hot water tank	Volume			L	-	-	-	-	-	-	-		
	Material			-	-	-	-	-	-	-	-		
	Time to raise DHW tank temp 15 - 65°C *6			min	-	-	-	-	-	-	-		
	Time to reheat 70% of DHW tank to 65°C *6			min	-	-	-	-	-	-	-		
	Heat loss *7			kWh/24h	-	-	-	-	-	-	-		
Expansion vessel (Primary circuit)	Volume			L	10	-	10	10	10	10	10		
	Charge pressure			MPa	0.1	-	0.1	0.1	0.1	0.1	0.1		
Safety device	Primary circuit	Control thermostat	°C	1~80	1~80	1~80	1~80	1~80	1~80	1~80	1~80		
		Pressure relief valve	MPa	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
		Flow sensor (Min. flow)	L/min	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0		
		BH manual reset thermostat	°C	90	-	90	90	-	90	90	90		
		BH thermal Cut Off	°C	121	-	121	121	-	121	121	121		
		Control thermostat	°C	-	-	-	-	-	-	-	-		
	DHW tank	IH manual reset thermostat	°C	-	-	-	-	-	-	-	-		
		Temperature & pressure relief valve	°C	-	-	-	-	-	-	-	-		
			MPa	-	-	-	-	-	-	-	-		
			-	-	-	-	-	-	-	-	-		
Connections	Water	Primary circuit	mm	G1-A	G1-A	G1-A	φ28	φ28	φ28	φ28	φ28		
		DHW circuit	mm	-	-	-	-	-	-	-	-		
	Refrigerant	Gas	mm	φ12.7	φ15.88	φ15.88	φ12.7	φ12.7	-	-	-		
Liquid		mm	φ6.35	φ9.52	φ9.52	φ6.35	φ6.35	-	-	-			
Refrigerant *8			-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A		
Guaranteed operating range *9	Ambient	°C	0~35	0~35	0~35	0~35	0~35	0~35	0~35	0~35	0~35		
		%RH	≤80	≤80	≤80	≤80	≤80	≤80	≤80	≤80	≤80		
	Outdoor temperature	Heating	°C	See outdoor unit spec table									
Operating range	Heating	Room temperature	°C	10~30	10~30	10~30	10~30	10~30	10~30	10~30	10~30		
		Flow temperature	°C	25~60	25~60	25~60	25~60	25~60	25~60	25~60	25~60		
	Cooling	Room temperature	°C	-	-	-	-	-	-	-	-		
		Flow temperature	°C	5~25	5~25	5~25	-	-	-	-	-		
	DHW	°C	-	-	-	-	-	-	-	-	-		
		Legionella prevention	°C	-	-	-	-	-	-	-	-	-	
Sound pressure level			dB(A)	28	28	28	28	28	28	28	28		
Sound power level			dB(A)	40	40	40	40	40	40	40	40		

*1 Volume of sanitary water circuit, primary DHW circuit (from 3-way valve to confluent point with Heating circuit), piping to Expansion vessel, and Expansion vessel is not included in this value.
 *2 When powered from independent source.
 *3 Allowable flow rate range differs depending on connected outdoor unit. Please refer to section 4.2.
 *4 If the water flow rate exceeds maximum, the flow speed will be greater than 1.5 m/s, which could corrode the pipes.
 *5 If the water flow is less than the minimum, the flow error will be activated.
 *6 Tested under BS7206 conditions (Primary flow to cylinder coil 80-82 deg C). Conducted by WRC.

*7 Calculated from 24h temperature decay at top of the tank from 65degC (ambient temperature approx. 20degC). Tested by WRC.
 *8 Refrigerant of outdoor unit connected to cylinder unit.
 *9 The environment must be frost-free.
 *10 Cooling mode is not available in low outdoor temperature.
 If you use our system in cooling mode at the low ambient temperature (10°C or below), there are some risks of plate heat exchanger breaking by frozen water.