

2 Specifications

Model name				ERSF-MEE	ERSF-VM2E	ERSF-VM6E	ERSF-VM9E	ERSF-TM9E	
Dimensions	Without package	Height	mm	800	800	800	800	800	
		Width	mm	530	530	530	530	530	
		Depth	mm	360	360	360	360	360	
	With package	Height	mm	560	560	560	560	560	
		Width	mm	600	600	600	600	600	
		Depth	mm	990	990	990	990	990	
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	
	RAL code		-	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	
Product weight (empty)			kg	32	39	40	41	41	
Product weight (full)			kg	34	45	46	47	47	
Water volume of heating circuit in the unit *1			L	1.6	5.1	5.1	5.1	5.1	
Type of Installation			-	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	
			V	230	230	230	230	230	
			Hz	50	50	50	50	50	
		Input	kW	0.30	0.30	0.30	0.30	0.30	
			Current	A	1.95	1.95	1.95	1.95	1.95
			Breaker	A	10	10	10	10	10
		Booster heater	Power supply	Ph	-	~N	~N	3~	3~
				V	-	230	230	400	230
				Hz	-	50	50	50	50
			Capacity	kW	-	2	2+4	3+6	3+6
	Heater step		-	-	1	3	3	3	
	Current		A	-	9	26	13	23	
	Breaker		A	-	16	32	16	32	
	Immersion heater	Power supply	Ph	-	-	-	-	-	
			V	-	-	-	-	-	
			Hz	-	-	-	-	-	
		Capacity	kW	-	-	-	-	-	
		Current	A	-	-	-	-	-	
		Breaker	A	-	-	-	-	-	
			A	-	-	-	-	-	
		A	-	-	-	-	-		
	A	-	-	-	-	-			
Water circulation pump (Primary circuit)	Type Input (10/20/max L/min)*3	-	DC motor	DC motor	DC motor	DC motor	DC motor		
		Speed 1	W	10/13/15	10/13/15	10/13/15	10/13/15	10/13/15	
		Speed 2	W	16/21/27	16/21/27	16/21/27	16/21/27	16/21/27	
		Speed 3	W	24/32/42	24/32/42	24/32/42	24/32/42	24/32/42	
		Speed 4	W	34/46/58	34/46/58	34/46/58	34/46/58	34/46/58	
		Speed 5 (Default setting)	W	47/58/60	47/58/60	47/58/60	47/58/60	47/58/60	
	Performance curve: please refer to the following page	Current (10/20/max L/min)*3	Speed 1	A	0.2/0.2/0.3	0.2/0.2/0.3	0.2/0.2/0.3	0.2/0.2/0.3	
			Speed 2	A	0.2/0.3/0.4	0.2/0.3/0.4	0.2/0.3/0.4	0.2/0.3/0.4	
			Speed 3	A	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 4	A	0.4/0.5/0.6	0.4/0.5/0.6	0.4/0.5/0.6	0.4/0.5/0.6	
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	-	-	-	-	-	
			L/min	-	-	-	-	-	
Flow rate	Primary circuit	Max.*4	L/min	36.9	36.9	36.9	36.9	36.9	
		Min.*5	L/min	5.0	5.0	5.0	5.0	5.0	
Domestic hot water tank	Volume		L	-	-	-	-	-	
	Material		-	-	-	-	-	-	
	Declared load profile		-	-	-	-	-	-	
Expansion vessel (Primary circuit)	Volume		L	-	10	10	10	10	
	Charge pressure		MPa	-	0.1	0.1	0.1	0.1	
Safety device	Primary circuit	Control thermistor	°C	1 to 80	1 to 80	1 to 80	1 to 80	1 to 80	
		Pressure relief valve	MPa	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	
		BH manual reset thermostat	°C	-	90	90	90	90	
		BH thermal Cut Off	°C	-	121	121	121	121	
		Control thermistor	°C	-	-	-	-	-	
	DHW tank	IH manual reset thermostat	°C	-	-	-	-	-	
		Temperature & pressure relief valve	°C	-	-	-	-	-	
			MPa	-	-	-	-	-	
Connections	Water	Primary circuit for local system	-	G1	G1	G1	G1		
		Primary circuit for outdoor unit	-	-	-	-	-		
		DHW circuit	-	-	-	-	-		
	Refrigerant	Gas	mm	φ12.7 or φ15.88	φ12.7 or φ15.88	φ12.7 or φ15.88	φ12.7 or φ15.88	φ12.7 or φ15.88	
	Liquid	mm	φ6.35	φ6.35	φ6.35	φ6.35	φ6.35		
Refrigerant *6			-	R32	R32	R32	R32		
			°C	0 to 35	0 to 35	0 to 35	0 to 35		
Guaranteed operating range *7	Ambient		%RH	≤ 80	≤ 80	≤ 80	≤ 80	≤ 80	
		Outdoor temperature	Heating	°C	See outdoor unit spec table				
		Cooling *8	°C	See outdoor unit spec table					
Operating range	Heating	Room temperature	°C	10 to 30	10 to 30	10 to 30	10 to 30	10 to 30	
		Flow temperature *10, 11	°C	20 to 70	20 to 70	20 to 70	20 to 70	20 to 70	
	Cooling	Room temperature	°C	-	-	-	-	-	
		Flow temperature *10, 11	°C	5 to 25	5 to 25	5 to 25	5 to 25	5 to 25	
	DHW *9		°C	-	-	-	-	-	
	Legionella prevention *9		°C	-	-	-	-	-	
Sound power level (PWL)			dB(A)	41	41	41	41	41	

*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 by an independent source.

*3 Allowable flow rate range differs depending on connected outdoor unit.

*4 If the water flow rate range exceeds maximum, the flow speed will be greater than 2.0 m/s, which could corrode the pipes.

*5 If the water flow is less than the minimum, the flow error will be activated.

*6 Refrigerant of outdoor unit connected to cylinder unit.

*7 The environment must be frost-free.

*8 See outdoor unit spec table (min, 10°C). 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 damages by frozen water.

*9 For the model without both booster heater and immersion heater, the max. hot water temperature is [Max. outlet water of outdoor unit -3 °C]. For the max. outlet of outdoor unit spec table.

*10 Maximum temperature of E*****F model depending on the connected outdoor unit. PUZ: 70°C, Other: 60°C.

*11 Maximum temperature of E*****X model depending on the connected outdoor unit. WZ: 75°C, Other: 60°C.