MITSUBISHI ELECTRIC

Changes for the Better

for a greener tomorrow

ecodan

D generation

Mitsubishi Electric Quality

Indoor Units
All-in-one Compact Indoor Unit

- All-in one: Key functional components are incorporated
- Compact cylinder unit: Just 595x680mm footprint and 1,600mm of 200L unit height
- Compact hydro box: Only 530x360mm footprint
- Easy Installation: Factory fitted pressure relief valve
- Easy service: Relevant parts are located at the front of the unit for easy maintenance
- Easy transport: Handles attached on front and back (cylinder unit)

New Expanded Line-up

With addition of new 170L and 300L cylinders, all within the existing slim 595x680mm footprint, ecodan is the perfect solution for any situation.

Cylinder unit

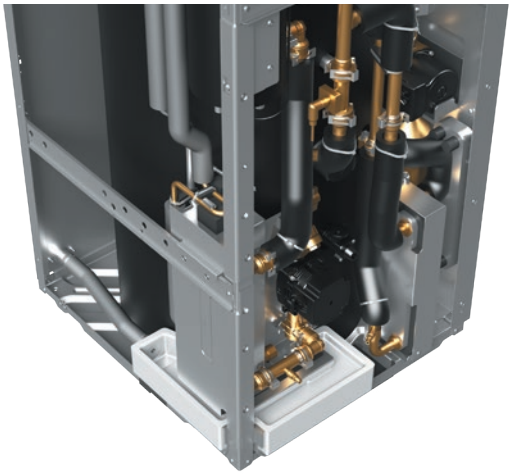
Hydro box unit

Easy Installation and Low Maintenance

Simple Piping Arrangement

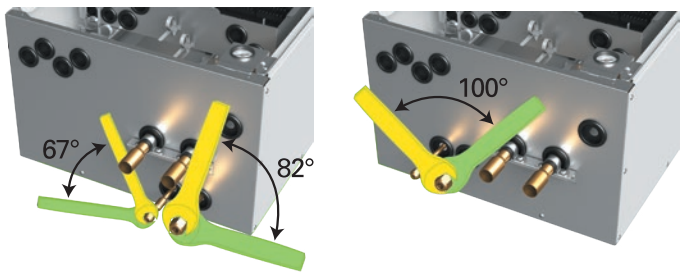
All water piping is aligned at the rear side of the unit for easy connection and neat finish.

Built-in Drain Pan for Reversible Cylinder Models



Reversible models now include a built-in space saving drain pan and the drain socket is positioned at the back of the unit. With use of the adjuster bolt, the outlet height can be higher than 50mm, allowing 5m drainage.

Hydro Box Piping Arrangement Improvement



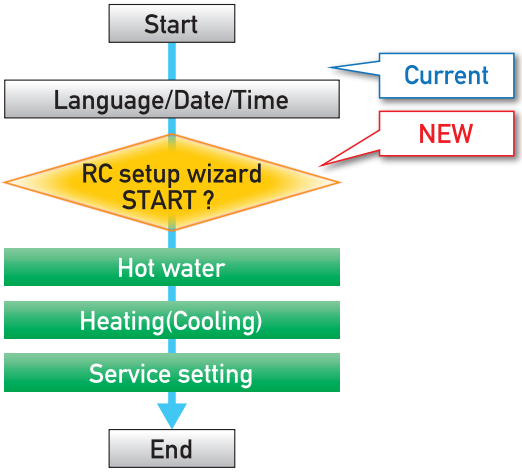
Through structural innovation related to the space around the pipes, the area where the spanner can be moved has been increased, thus improving pipe work and enabling it to be completed smoothly.

Easy Adjustment

Adjust bolt capable of 50mm expansion for easy installation on uneven surfaces.

Initial Setting Wizard

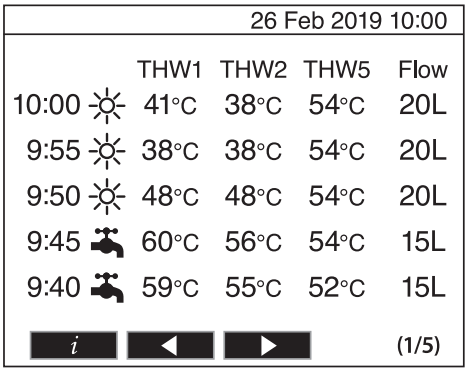
In addition to language, date and time, you can set up hot water and heating/cooling operation, pump speed, flow rate range initial setting much simpler than previous models.



Operation Data Monitoring

Time, operation mode, flow /return/ tank temperature, can be displayed on main remote controller.

Sample display of monitoring setting



Easy Installation and Low Maintenance

Minimum Required Water Volume

Outdoor heat pump unit		Cylinder/Hydro box containing water amount (L)	Additional required water amount (L)*1	
			Average/ Warmer Climate*2	Colder Climate*2
Cylinder / Hydro box	SUZ-SWM40VA	5	1	12
	SUZ-SWM60VA		2	21
	SUZ-SWM80VA		4	29

Refer to the Indoor unit installation manual for other outdoor unit models.
*1 If there is a bypass circuit, above table means minimum water amount in case of bypass
*2 Please refer to 2009/125/EC: Energy-related Products Directive and Regulation (EU) No 813/2013 to confirm your climate zone.

Minimum Additional Water Required

In average/warmer conditions, minimum additional water is required for SUZ outdoor unit. If there is enough water amount inside water pipe , radiator , or underfloor heating, no buffer tank is required.

New 2 zone kit

- You can sellect from 3 types of pump operations, 1. Fixed speed mode, 2. Fixed pressure mode, 3. Energy saving mode, depending on your preference.
- All-in-one kit: Key functional components are incorporated in 2 zone kit.
- Easy installation: G1 screw type flexi-piping to avoid brazing.
- Compact size: Just to fit on the top of cylinder unit, also wall mountable.

High Performance

Improved Efficiency

With additional thermistor(THW5A) , ηwh [%] rating is improved by more than 40% compared to previous C generation 200L models allowing 170L and 200L to achieve A+, the highest possible domestic hot water efficiency rank.

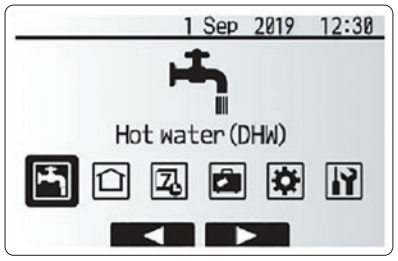
Excellent DHW efficiency

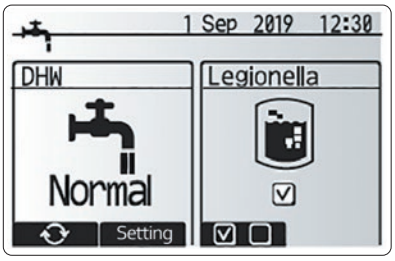
	170L (L)	200L (L)	300L (XL)
	ηwh [%]	ηwh [%]	ηwh [%]
C Generation	-	96 ~ 104	-
D Generation	136 ~ 148	138 ~ 159	118 ~ 128
DHW Rank	A+	A+	A/A+

Thermistor Position of Cylinder

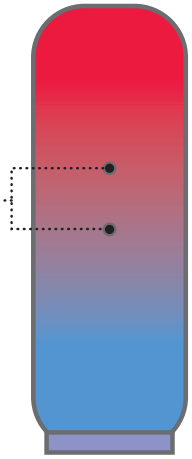
The thermistor position is now selectable allowing the unit to accommodate for different water demands in order to maximise the efficiency of the unit for any size of household or application.

Using two thermistors equipped with all sizes of tanks, you can now select the DHW recharge amount from two options (Standard/Large). It helps accomodate for different water demands in order to maximise the efficiency of the unit for any size of household or application. This mode can be selected from main remote controller.





DHW recharge (Standard / Large)

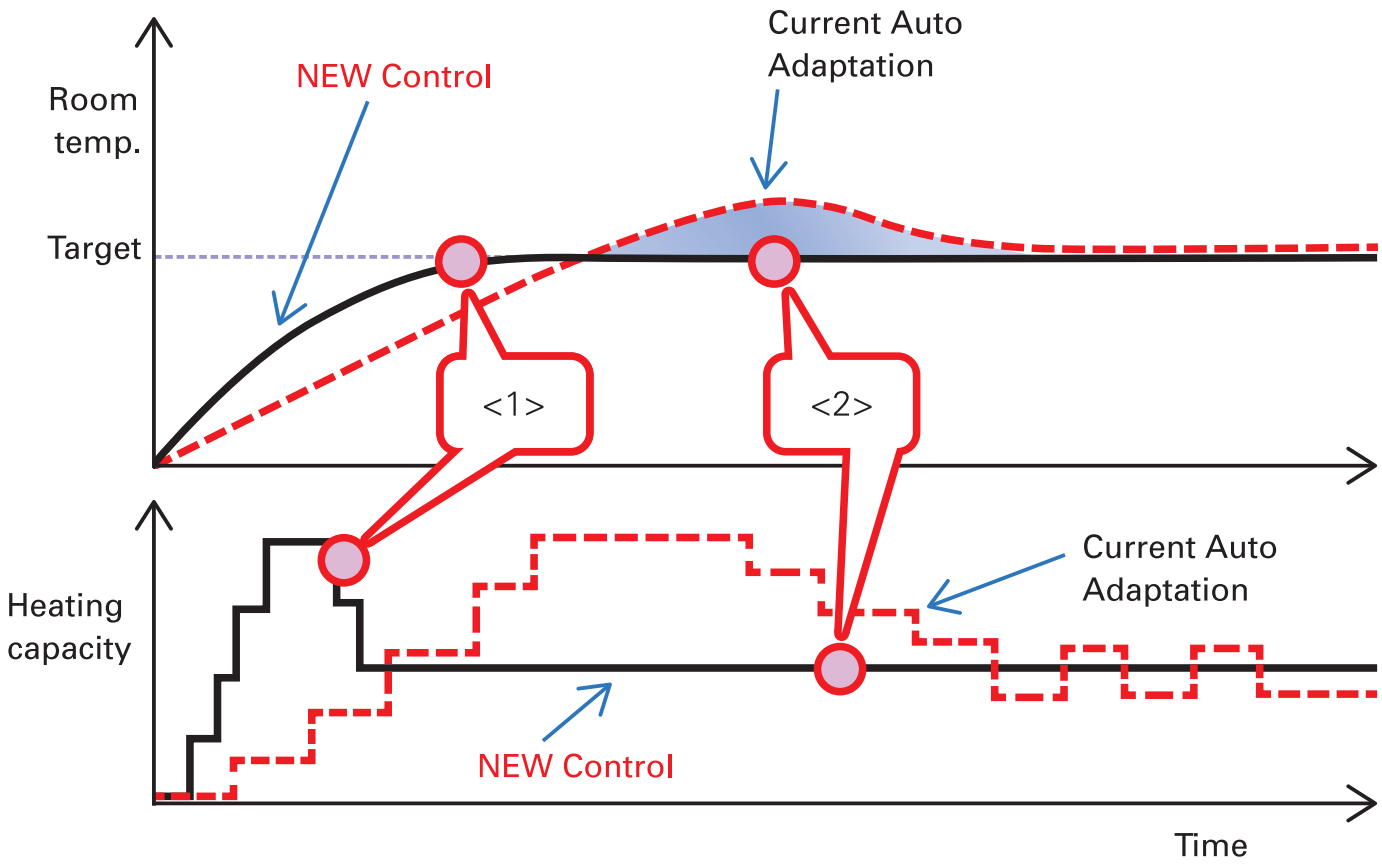


Unique Technology of ecodan

Auto Adaptation Improvement

Mitsubishi Electric's Auto Adaptation function automatically tracks changes in the actual room temperature and outdoor temperature and adjusts the flow temperatures accordingly.

Aiming to realise further comfort and energy savings, Mitsubishi Electric has already introduced a revolutionary new controller. Auto Adaptation function measures the room temperature and outdoor temperature, and then calculates the required heating capacity for the room. Simply stated, the flow temperature is automatically controlled according to the required heating capacity, while optimal room temperature is maintained at all times, ensuring the appropriate heating capacity and preventing energy from being wasted. Furthermore, by estimating future changes in room temperature, the system works to prevent unnecessary increases and decreases in the flow temperature. Accordingly, Auto Adaptation maximises both comfort and energy savings without the need for complicated settings. For Mitsubishi Electric ecodan, by introducing improved control logic, we achieved faster heating and more energy saving.



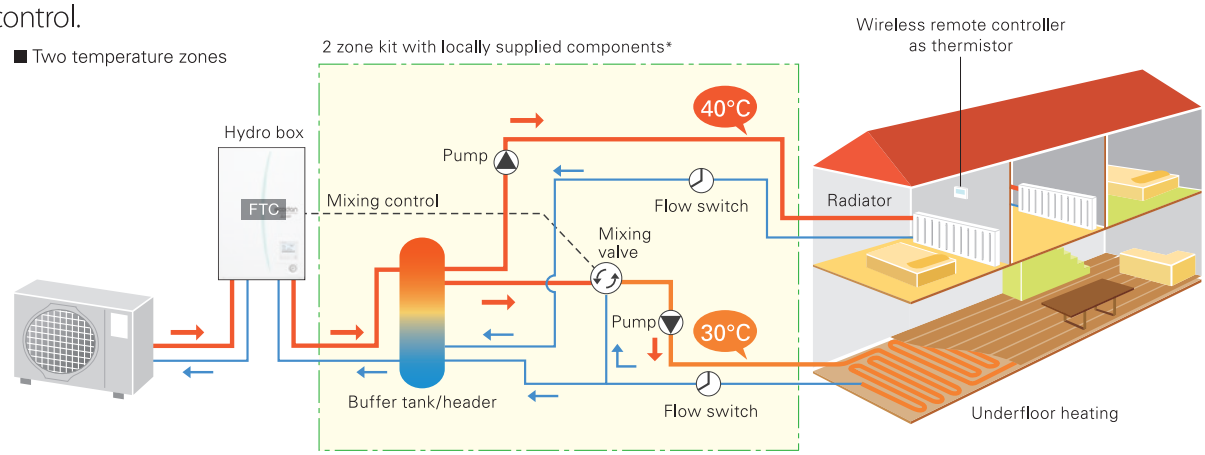
<1> Fast heating with improved accuracy in learning building heat load
<2> Energy saving by avoiding over heating and capacity fluctuation with better control response, i.e. control interval and resolution

Unique Technology of ecodan

2 Zone Control (for heating/cooling)

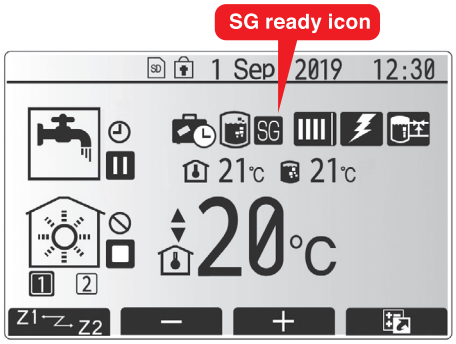
Improved Simultaneous Control of Two Different Zones

Using ecodan, it is possible to control two different flow temperatures, thereby managing two different heating load requirements. The system can adjust and maintain two flow temperatures when different temperatures are required for different rooms; for example, controlling a flow temperature of 40°C for the bedroom radiators and another flow temperature of 30°C for the living room floor heating. Moreover, mixing valve control is advanced for improving zone 2 comfort by using heat storage in buffer tank. Also, new controller monitors the temperature inside buffer tank and prioritizes using the heat inside the tank to avoid frequent on/off operation when using 2 zone control.



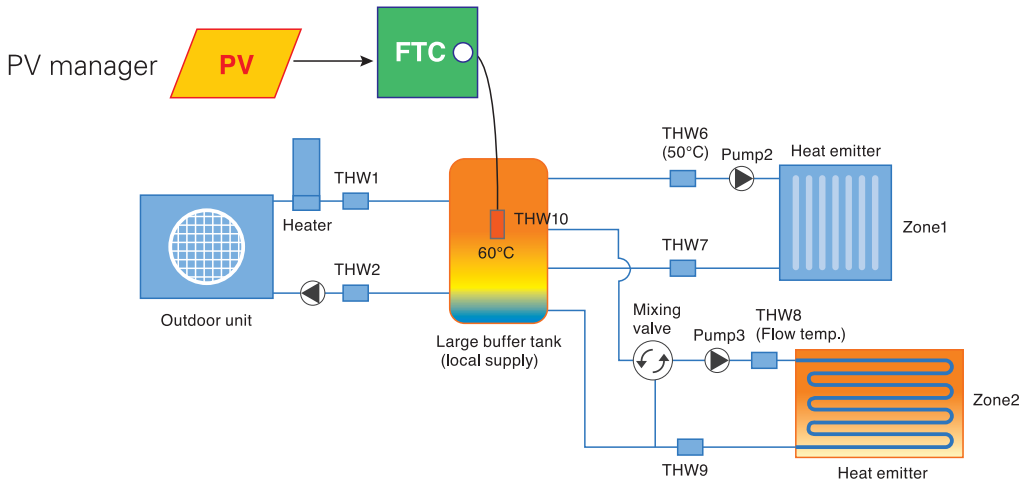
*Items such as a mixing tank, mixing valve flow switch and pumps are not included and need to be purchased locally.

Improved Smart Grid Ready



Pattern	Operation	R/C indication
1	Normal operation	———
2	Switch OFF command	SG
3	Switch ON recommendation	
4	Switch ON command (while PV is generating)	

SG ready icon on main remote controller indicates that SG ready is active and its setting can be easily operated with main remote contoller.Improved SG ready function enables you to choose the target temperature in unit of 1°C. Also, when PV manager is interlocked with ecodan and ecodan receives its signal, heat is stored as much as possible while heat pump and/or electric heater running.
Heat storage in large buffer tank will be made available for zone2 as well when peak cut signal is on. As long as a mixing valve keeps its control, zone2 flow temperature is maintained.



New R32 Eco Inverter

Energy efficient and environmentally friendly heating.

New Look and Expanded Line-up

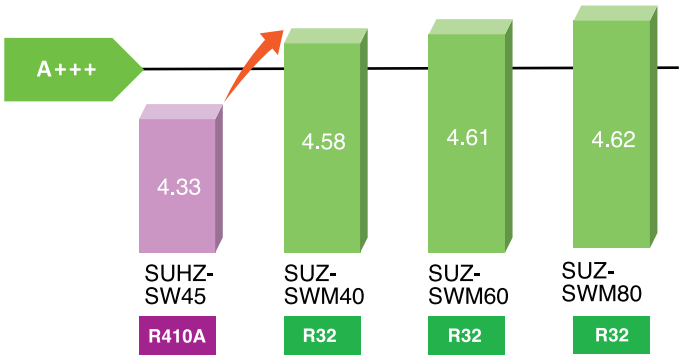
SUZ-SWM40/60/80VA

- New black grill and sticker
- New line-up added (60 and 80)

	New	New
40	60	80
●	●	●

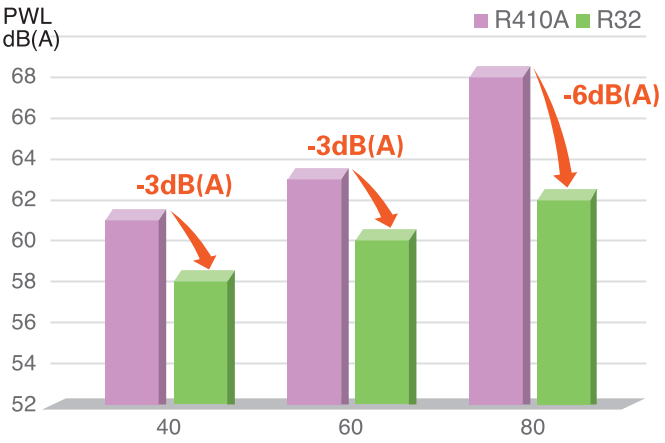
High Performance

A+++ / A++ energy class in space heating & combination heater. Part Load efficiency SCOP up to 4.62 at low temperature.



Low Noise

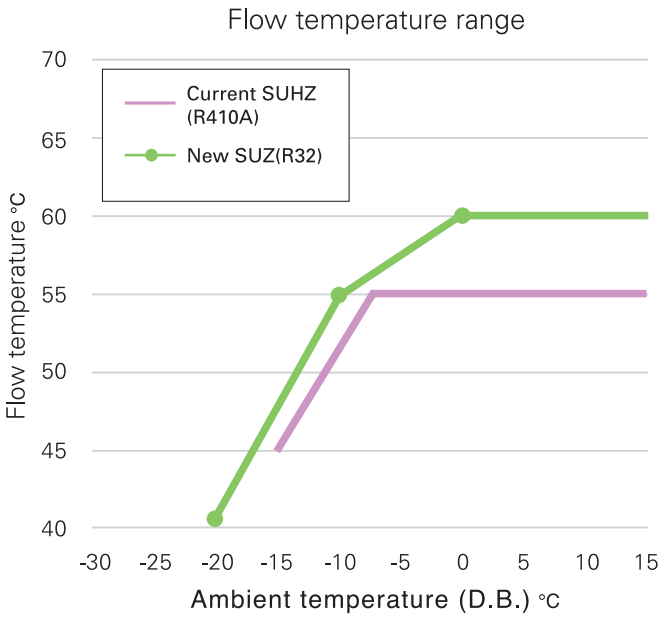
Compared with conventional outdoor unit, New R32 eco inverter achieved lower noise level, assuring the flexibility of installation in dense residential areas.



*Compared SUZ-SWM40/60/80VA with SUHZ-SW45VA/PUHZ-SW50VKA/PUHZ-SW75VHA

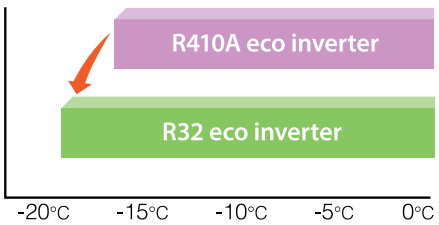
60°C Flow Temperature

Along with it's increased lower operating range the New R32 range is capable of delivering a higher flow rate of 60°C, 5°C higher than the conventional model.



Guaranteed Operating Range Expansion

Guaranteed heating operating range is extended to -20°C.



Outdoor unit

R32

Model name				SUZ-SWM40VA	SUZ-SWM60VA	SUZ-SWM80VA
Dimensions		HxWxD	mm	880x840x330	880x840x330	880x840x330
Weight			kg	54	54	54
power supply (V / Phase / Hz)				230/1-ph/50	230/1-ph/50	230/1-ph/50
Heating	A7W35	Nominal	kW	4.0	6.0	7.5
		COP		5.20	4.86	4.70
	A2W35	Nominal	kW	4.0	5.0	6.5
		COP		3.90	3.33	3.40
	A-7W35	Nominal	kW	5.0	6.0	6.8
		COP	kW	3.13	2.98	2.80
Average climate water outlet 35°C		Class*		A+++	A+++	A+++
		ηS		180	181	182
		SCOP		4.58	4.61	4.62
Average climate water outlet 55°C		Class*		A++	A++	A++
		ηS		129	130	131
		SCOP		3.29	3.33	3.35
DHW 200L Load Profile		Class		A+	A+	A+
		ηWH		159	148	148
		MFT(°C)		60	60	60
Cooling	A35W7	Nominal	kW	4.5	5.0	5.4
		EER		3.29	3.03	3.00
	A35W18	Nominal	kW	5.6	6.0	6.3
		EER		4.97	4.88	4.80
PWL (Heating)			dB(A)	58	60	62
Max operating current			A	13.9	13.9	13.9
Breaker size			A	16	16	16
Piping	Diameter	Liquid/Gas	mm	6.35/12.7	6.35/12.7	6.35/12.7
	Length	Out-In	m	5-30	5-30	5-30
	Height	Out-In	m	Max 30	Max 30	Max 30
Guaranteed Operating range	Heating		°C	-20°C~24°C	-20°C~24°C	-20°C~24°C
	DHW		°C	-20°C~35°C	-20°C~35°C	-20°C~35°C
	Cooling		°C	10°C~46°C	10°C~46°C	10°C~46°C

*Energy efficiency class according to EU No.813/2013 regarding heating under average climate conditions for low/medium temperature conditions

Optional parts <Outdoor unit>

Part name	Model name	R32			R410A (Power Inverter)					R410A (Zubadan)			
		SUZ-SWM40VA	SUZ-SWM60VA	SUZ-SWM80VA	PUHZ-SW75V/YAA	PUHZ-SW100V/YAA	PUHZ-SW120V/YHA	PUHZ-SW160YKA	PUHZ-SW200YKA	PUHZ-SHW80V/YAA	PUHZ-SHW112V/YAA	PUHZ-SHW140YHA	PUHZ-SHW230YKA2
Connector for drain hose heater signal output	PAC-SE60RA-E	–	–	–	✓	✓	✓	✓	✓	✓	✓	✓	✓
Air discharge guide	MAC-886SG-E	✓	✓	✓	–	–	–	–	–	–	–	–	–
	PAC-SG59SG-E	–	–	–	–	–	✓	–	–	–	–	✓	–
	PAC-SH96SG-E	–	–	–	✓	✓	✓	✓	✓	✓	✓	–	✓
Air protection guide	PAC-SH63AG-E	–	–	–	–	–	✓	–	–	–	–	✓	–
	PAC-SH95AG-E	–	–	–	✓	✓	–	✓	✓	✓	✓	–	✓
Attachement	PAC-SH82AT-E	–	–	–	✓	✓	–	–	✓	✓	✓	–	✓
Drain socket	PAC-SG61DS-E	–	–	–	✓	✓	✓	✓	✓	✓	✓	–	–
Centralized drain pan	PAC-SG64DP-E	–	–	–	–	–	✓	–	–	–	–	–	–
	PAC-SH97DP-E	–	–	–	–	–	–	✓	✓	–	–	–	–
	PAC-SJ83DP-E	–	–	–	–	✓	–	–	–	✓	✓	–	–
Defrost heater	MAC-642BH-U1	✓	✓	✓	–	–	–	–	–	–	–	–	–
Control/Service tool	PAC-SK52ST	–	–	–	✓	✓	✓	✓	✓	✓	✓	✓	✓

Optional parts <Interface/Flow temperature control>

Part name	Model name	R32			R410A (Power Inverter)					R410A (Zubadan)				Remarks
		SUZ-SWM40VA	SUZ-SWM60VA	SUZ-SWM80VA	PUHZ-SW75V/YAA	PUHZ-SW100V/YAA	PUHZ-SW120V/YHA	PUHZ-SW160YKA	PUHZ-SW200YKA	PUHZ-SHW80V/YAA	PUHZ-SHW112V/YAA	PUHZ-SHW140YHA	PUHZ-SHW230YKA2	
Capacity step control interface	PAC-IF011B-E	–	–	–	✓	✓	✓	✓	✓	✓	✓	✓	✓	1 PC board w/ Case
Flow temperature controller	PAC-IF032B-E	–	–	–	✓	✓	✓	✓	✓	✓	✓	✓	✓	1 PC board w/ Case
System Controllers	PAC-IF071B-E	✓*	✓*	✓*	✓	✓	✓	✓	✓	✓	✓	✓	✓	1 PC board w/ Case
	PAC-IF072B-E	✓*	✓*	✓*	✓	✓	✓	✓	✓	✓	✓	✓	✓	1 PC board w/ Case
	PAC-IF073B-E	✓*	✓*	✓*	✓	✓	✓	✓	✓	✓	✓	✓	✓	1 PC board w/ Case
Thermistor	PAC-TH011-E	✓*	✓*	✓*	✓	✓	✓	✓	✓	✓	✓	✓	✓	

* Pressure sensor (PAC-PS01-E) is required.

R410A

				Power Inverter							
Model name				PUHZ-SW75VAA	PUHZ-SW75YAA	PUHZ-SW100VAA	PUHZ-SW100YAA	PUHZ-SW120VHA	PUHZ-SW120YHA	PUHZ-SW160YKA	PUHZ-SW200YKA
Dimensions		HxWxD	mm	1020x1050x480	1020x1050x480	1020x1050x480	1020x1050x480	1350x950x330	1350x950x330	1338x1050x330	1338x1050x330
Weight			kg	92	104	114	126	118	130	136	136
power supply (V / Phase / Hz)				230/1-ph/50	400/3-ph/50	230/1-ph/50	400/3-ph/50	230/1-ph/50	400/3-ph/50	400/3-ph/50	400/3-ph/50
Heating	A7W35	Nominal	kW	8.0	8.0	11.2	11.2	16.0	16.0	22.0	25.0
		COP		4.40	4.40	4.46	4.46	4.10	4.10	4.20	4.00
	A2W35	Nominal	kW	7.5	7.5	10.0	10.0	12.0	12.0	16.0	20.0
		COP		3.40	3.40	3.32	3.32	3.24	3.24	3.11	2.80
	A-7W35	Nominal	kW	6.3	6.3	10.0	10.0	11.2	11.2	13.4	15.3
		COP	kW	3.16	3.16	2.85	2.85	2.85	2.85	2.80	2.67
Average climate water outlet 35°C		Class*		A++	A++	A++	A++	A++	A++	A++	A++
		ηS		162	160	167	165	162	162	161	163
		SCOP		4.12	4.07	4.25	4.21	4.13	4.13	4.10	4.14
Average climate water outlet 55°C		Class*		A++	A++	A++	A++	A++	A++	A++	A++
		ηS		129	128	130	129	125	125	125	127
		SCOP		3.31	3,28	3.33	3.30	3.21	3.21	3.20	3.26
DHW 200L/300L Load Profile		Class		A+/A	A+/A	A+/A	A+/A	A+/A	A+/A	-	-
		ηWH		145/120	145/120	145/120	145/120	138/118	138/118	-	-
		MFT(°C)		60	60	60	60	60	60	-	-
Cooling	A35W7	Nominal	kW	7.1	7.1	10.0	10.0	12.5	12.5	16.0	20.0
		EER		2.70	2.70	2.83	2.83	2.32	2.32	2.76	2.25
	A35W18	Nominal	kW	7.1	7.1	10.0	10.0	14.0	14.0	18.0	22.0
		EER		4.43	4.43	4.47	4.47	4.08	4.08	4.56	4.10
PWL (Heating)			dB(A)	58	58	60	60	72	72	78	78
Max operating current			A	22.0	11.5	28.0	12.0	29.5	13.0	19.0	21.0
Breaker size			A	25	16	32	16	32	16	25	32
Piping	Diameter	Liquid/Gas	mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/25.4	12.7/25.4
	Length	Out-In	m	2-40	2-40	2-75	2-75	2-75	2-75	2-80	2-80
	Height	Out-In	m	Max 10	Max 10	Max 10	Max 10	Max 30	Max 30	Max 30	Max 30
Guaranteed Operating range	Heating		°C	-20°C~21°C	-20°C~21°C	-20°C~21°C	-20°C~21°C	-20°C~21°C	-20°C~21°C	-20°C~21°C	-20°C~21°C
	DHW		°C	-20°C~35°C	-20°C~35°C	-20°C~35°C	-20°C~35°C	-20°C~35°C	-20°C~35°C	-20°C~35°C	-20°C~35°C
	Cooling		°C	-15°C~46°C	-15°C~46°C	-15°C~46°C	-15°C~46°C	-15°C~46°C	-15°C~46°C	-15°C~46°C	-15°C~46°C

*Energy efficiency class according to EU No.813/2013 regarding heating under average climate conditions for low/medium temperature conditions

				Zubadan					
Model name				PUHZ-SHW80VAA	PUHZ-SHW80YAA	PUHZ-SHW112VAA	PUHZ-SHW112YAA	PUHZ-SHW140YHA	PUHZ-SHW230YKA2
Dimensions		HxWxD	mm	1020x1050x480	1020x1050x480	1020x1050x480	1020x1050x480	1350x950x330	1338x1050x330
Weight			kg	116	128	116	128	134	143
power supply (V / Phase / Hz)				230/1-ph/50	400/3-ph/50	230/1-ph/50	400/3-ph/50	400/3-ph/50	400/3-ph/50
Heating	A7W35	Nominal	kW	8.0	8.0	11.2	11.2	14.0	23.0
		COP		4.65	4.65	4.46	4.46	4.22	3.65
	A2W35	Nominal	kW	8.0	8.0	11.2	11.2	14.0	23.0
		COP		3.55	3.55	3.22	3.22	2.96	2.37
	A-7W35	Nominal	kW	8.0	8.0	11.2	11.2	14.0	23.0
		COP	kW	3.48	3.48	3.34	3.34	2.58	2.85
Average climate water outlet 35°C		Class*		A++	A++	A++	A++	A++	A++
		ηS		169	167	171	169	163	164
		SCOP		4.31	4.26	4.34	4.31	4.16	4.18
Average climate water outlet 55°C		Class*		A++	A++	A++	A++	A++	A++
		ηS		133	132	135	135	127	127
		SCOP		3.40	3.36	3.46	3.44	3.25	3.25
DHW 200L/300L Load Profile		Class		A+/A	A+/A	A+/A	A+/A	A+/A	-
		ηWH		145/120	145/120	145/120	145/120	138/118	-
		MFT(°C)		60	60	60	60	60	-
Cooling	A35W7	Nominal	kW	7.1	7.1	10.0	10.0	12.5	20.0
		EER		3.31	3.31	2.83	2.83	2.17	2.22
	A35W18	Nominal	kW	7.1	7.1	10.0	10.0	12.5	20.0
		EER		4.52	4.52	4.74	4.74	4.26	3.55
PWL (Heating)			dB(A)	59	59	60	60	70	75
Max operating current			A	22.0	13.0	28.0	13.0	13.0	20.0
Breaker size			A	25	16	32	16	16	25
Piping	Diameter	Liquid/Gas	mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	12.7/25.4
	Length	Out-In	m	2-75	2-75	2-75	2-75	2-75	2-80
	Height	Out-In	m	Max 30	Max 30	Max 30	Max 30	Max 30	Max 30
Guaranteed Operating range	Heating		°C	-28°C~21°C	-28°C~21°C	-28°C~21°C	-28°C~21°C	-28°C~21°C	-25°C~21°C
	DHW		°C	-28°C~35°C	-28°C~35°C	-28°C~35°C	-28°C~35°C	-28°C~35°C	-25°C~35°C
	Cooling		°C	-15°C~46°C	-15°C~46°C	-15°C~46°C	-15°C~46°C	-15°C~46°C	-15°C~46°C

*Energy efficiency class according to EU No.813/2013 regarding heating under average climate conditions for low/medium temperature conditions

Indoor unit

<Cylinder unit (Heating only)>

Model name				Small capacity										
				EHST17D-VM2D	EHST20D-MED	EHST20D-VM2D	EHST20D-VM6D	EHST20D-YM9D	EHST20D-YM9ED	EHST20D-TM9D	EHST30D-MED	EHST30D-VM6ED	EHST30D-YM9ED	EHST30D-TM9ED
		Type		Heating only										
		Expansion vessel		✓		✓	✓	✓		✓				
		Booster heater (2/6/9)		✓		✓	✓	✓	✓	✓		✓	✓	✓
Dimensions		HxWxD	mm	1400×595×680	1600×595×680						2050×595×680			
Weight (empty)			kg	93	98	104	105	106	101	106	113	115	116	116
Control Board Power supply (Phase / V / Hz)				～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz
Heater	Booster heater	Power supply (Phase / V / Hz)		～/N,230V, 50Hz	—	～/N,230V, 50Hz	～/N,230V, 50Hz	3～,400V, 50Hz	3～,400V, 50Hz	3～,230V, 50Hz	—	～/N,230V, 50Hz	3～,400V, 50Hz	3～,230V, 50Hz
		Capacity	kW	2	—	2	2+4	3+6	3+6	3+6	—	2+4	3+6	3+6
		Current	A	9	—	9	26	13	13	23	—	26	13	23
		Breaker size	A	16	—	16	32	16	16	32	—	32	16	32
Domestic hot water tank	Volume / Material		L / -	170 / Stainless steel	200 / Stainless steel						300 / Stainless steel			
Guranteed operating range *1	Ambient		°C	0 - 35 (≦80%RH)										
	Outdoor	Heating	°C	See outdoor unit spec table										
		Cooling	°C	—										
Target temperature range	Heating	Room temperature	°C	10 - 30										
		Flow temperature	°C	20 - 60										
	Coolimg	Room temperature	°C	—										
		Flow temperature	°C	—										
DHW tank performance		Max. hot water temperature	°C	70	*2	70					*2	70		
		Water heater energy efficiency class		A+							A - A+			
Sound pressure level (PWL)			dB (A)	41										

*1 The indoor environment must be frost-free
*2 For the model without booster heater and immersion heater, the maximum allowable hot water temperature is 3℃ lower than maximum outlet water of outdoor unit. For the maximum outlet water of outdoor unit, refer to outdoor unit data book.

<Cylinder unit (Heating only)>

Model name				Medium capacity									
				EHST20C-MED	EHST20C-VM2D	EHST20C-VM6D	EHST20C-YM9D	EHST20C-YM9ED	EHST20C-TM9D	EHST30C-MED	EHST30C-VM6ED	EHST30C-YM9ED	EHST30C-TM9ED
		Type		Heating only									
		Expansion vessel			✓	✓	✓		✓				
		Booster heater (2/6/9)			✓	✓	✓	✓	✓		✓	✓	✓
Dimensions		HxWxD	mm	1600×595×680						2050×595×680			
Weight (empty)			kg	106	113	114	115	109	115	118	120	121	121
Control Board Power supply (Phase / V / Hz)				～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz
Heater	Booster heater	Power supply (Phase / V / Hz)		—	～/N,230V, 50Hz	～/N,230V, 50Hz	3～,400V, 50Hz	3～,400V, 50Hz	3～,400V, 50Hz	—	～/N,230V, 50Hz	3～,400V, 50Hz	3～,230V, 50Hz
		Capacity	kW	—	2	2+4	3+6	3+6	3+6	—	2+4	3+6	3+6
		Current	A	—	9	26	13	13	23	—	26	13	23
		Breaker size	A	—	16	32	16	16	32	—	32	16	32
Domestic hot water tank	Volume / Material		L / -	200 / Stainless steel						300 / Stainless steel			
Guranteed operating range *1	Ambient		°C	0 - 35 (≦80%RH)									
	Outdoor	Heating	°C	See outdoor unit spec table									
		Cooling	°C	—									
Target temperature range	Heating	Room temperature	°C	10 - 30									
		Flow temperature	°C	20 - 60									
	Coolimg	Room temperature	°C	—									
		Flow temperature	°C	—									
DHW tank performance		Max. hot water temperature	°C	*2	70					*2	70		
		Water heater energy efficiency class		A+						A			
Sound pressure level (PWL)			dB (A)	40									

*1 The indoor environment must be frost-free
*2 For the model without booster heater and immersion heater, the maximum allowable hot water temperature is 3℃ lower than maximum outlet water of outdoor unit. For the maximum outlet water of outdoor unit, refer to outdoor unit data book.

<Hydro box (Heating only)>

Model name				Small capacity						Medium capacity						Large capacity	
				EHSD-MED	EHSD-VM2D	EHSD-VM6D	EHSD-YM9D	EHSD-YM9ED	EHSD-TM9D	EHSC-MED	EHSC-VM2D	EHSC-VM6D	EHSC-YM9D	EHSC-YM9ED	EHSC-TM9D	EHSE-YM9ED	EHSE-MED
		Type		Heating only													
		Expansion vessel			✓	✓	✓		✓		✓	✓	✓		✓		
		Booster heater (2/6/9)			✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	
Dimensions		HxWxD	mm	800×530×360												950×600×360	
Weight (empty)			kg	36	43	44	105	106	101	40	47	48	48	43	48	63	61
Control Board Power supply (Phase / V / Hz)				～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz	～/N,230V, 50Hz
Heater	Booster heater	Power supply (V / Phase / Hz)		—	～/N,230V, 50Hz	～/N,230V, 50Hz	3～,400V, 50Hz	3～,400V, 50Hz	3～,230V, 50Hz	—	3～,400V, 50Hz	～/N,230V, 50Hz	3～,400V, 50Hz	3～,400V, 50Hz	3～,230V, 50Hz	3～,400V, 50Hz	—
		Capacity	kW	—	2	2+4	3+6	3+6	3+6	—	2	2+4	3+6	3+6	3+6	3+6	—
		Current	A	—	9	26	13	13	23	—	9	26	13	13	23	13	—
		Breaker size	A	—	16	32	16	16	32	—	16	32	16	16	32	16	—
Guranteed operating range *1	Ambient		L / -	0 - 35 (≦80%RH)													
	Outdoor	Heating	°C	See outdoor unit spec table													
		Cooling	°C	—													
Target temperature range	Heating	Room temperature	°C	10 - 30													
		Flow temperature	°C	20 - 60													
	Coolimg	Room temperature	°C	—													
		Flow temperature	°C	—													
Sound pressure level (PWL)			dB (A)	41						40						45	

*1 The indoor environment must be frost-free.

<Cylinder unit (Reversible)>

					Small capacity			Medium capacity	
Model name					ERST17D-VM2D	ERST20D-VM2D	ERST30D-VM2ED	ERST20C-VM2D	ERST30C-VM2ED
		Type			Heating and Cooling				
		Expansion vessel			✓	✓		✓	
		Booster heater (2/6/9)			✓	✓	✓	✓	✓
Dimensions		HxWxD		mm	1400x595x680	1600x595x680	2050x595x680	1600x595x680	2050x595x680
Weight (empty)				kg	93	104	114	113	120
Control Board Power supply (Phase / V / Hz)					～/N, 230V, 50Hz	～/N, 230V, 50Hz	～/N, 230V, 50Hz	～/N, 230V, 50Hz	～/N, 230V, 50Hz
Heater	Booster heater	Power supply (V / Phase / Hz)			～/N, 230V, 50Hz	～/N, 230V, 50Hz	～/N, 230V, 50Hz	～/N, 230V, 50Hz	～/N, 230V, 50Hz
		Capacity		kW	2	2	2	2	2
		Current		A	9	9	9	9	9
		Breaker size		A	16	16	16	16	16
Domestic hot water tank	Volume / Material			L / -	170 / Stainless steel	200 / Stainless steel	300 / Stainless steel	200 / Stainless steel	300 / Stainless steel
Guranteed operating range *1	Ambient			°C	0 - 35 (≦80%RH)				
	Outdoor			°C	See outdoor unit spec table				
		Heating		°C	See outdoor unit spec table *2				
Target temperature range	Heating	Cooling		°C	10 - 30				
		Room temperature		°C	20 - 60				
	Coolimg	Flow temperature		°C	—				
		Room temperature		°C	5 - 25				
DHW tank performance		Flow temperature		°C	70				
		Max. hot water temperature			A+	A+	A - A+	A+	A
Sound pressure level (PWL)		Water heater energy efficiency class		dB (A)	41			40	

*1 The indoor environment must be frost-free.
*2 During cooling operation at low outdoor temperature (10°C or lower), frozen water may cause damage on plate heat exchanger.

<Hydro box (Reversible)>

				Small capacity		Medium capacity		Large capacity	
Model name				ERSD-MED	ERSD-VM2D	ERSC-MED	ERSC-VM2D	ERSE-YM9ED	ERSE-MED
		Type		Heating only					
		Expansion vessel			✓		✓		
		Booster heater (2/6/9)			✓		✓	✓	
Dimensions		HxWxD	mm	800x530x360				950x600x360	
Weight (empty)			kg	38	44	40	47	64	62
Control Board Power supply (Phase / V / Hz)				～/N, 230V, 50Hz	～/N, 230V, 50Hz	～/N, 230V, 50Hz	～/N, 230V, 50Hz	～/N, 230V, 50Hz	～/N, 230V, 50Hz
Heater	Booster heater	Power supply (V / Phase / Hz)		—	～/N, 230V, 50Hz	—	～/N, 230V, 50Hz	3～, 400V, 50Hz	—
		Capacity	kW	—	2	—	2	3+6	—
		Current	A	—	9	—	9	13	—
		Breaker size	A	—	16	—	16	16	—
Guranteed operating range *1	Ambient		°C	0 - 35 (≦80%RH)					
	Outdoor	Heating	°C	See outdoor unit spec table					
		Cooling	°C	See outdoor unit spec table					
Target temperature range	Heating	Room temperature	°C	10 - 30					
		Flow temperature	°C	20 - 60					
	Coolimg	Room temperature	°C	—					
		Flow temperature	°C	5-25					
Sound pressure level (PWL)			dB (A)	41		40		45	

*1 The indoor environment must be frost-free
*2 If you use our system n cooling mode at the low ambient temperature (10°C or below), there are some risks of plate heat exchanger breaking by frozen water.

Optional parts <Indoor unit>

Part name	Model name	Cylinder	Hydrobox	Specification
Wireless remote controller	PAR-WT50R-E	✓	✓	
Wireless receiver	PAR-WR51R-E	✓	✓	
Thermistors	PAC-SE41TS-E	✓	✓	For room temp.
	PAC-TH011-E	✓	✓	For zone (flow and return temp.)
	PAC-TH011TK2-E	—	✓	For tank temp. (5m)
	PAC-TH011TKL2-E	—	✓	For tank temp. (30m)
	PAC-TH012HT-E	✓	✓	For boiler and buffer (5m)
	PAC-TH012HTL-E	✓	✓	For boiler and buffer (30m)
Immersion heater	PAC-IH01V2-E	✓	—	1Ph 1kW
	PAC-IH03V2-E	✓	—	1Ph 3kW
Joint pipe	PAC-SG72RJ-E	✓	✓	For PUHZ-SW75 φ6.35→φ9.52
	PAC-SG74RJ-E	✓	✓	For PUHZ-SW75 φ12.7→φ15.88
Wi-Fi interface	MAC-567IF-E	✓	✓	
2 Zone kit	PAC-TZ02-E	✓	✓	
Expansion vessel	PAC-EVP12-E	✓	—	12L

Combination Table

Split indoor/outdoor unit combination		R32			R410A												
		SUZ-SWM40VA	SUZ-SWM60VA	SUZ-SWM80VA	PUHZ-SW75VAA	PUHZ-SW75YAA	PUHZ-SW100VAA	PUHZ-SW100YAA	PUHZ-SW120VHA	PUHZ-SW120YHA	PUHZ-SW160YKA	PUHZ-SW200YKA	PUHZ-SHW80VAA	PUHZ-SHW80YAA	PUHZ-SHW112VAA	PUHZ-SHW112YAA	PUHZ-SHW140YHA	PUHZ-SHW230YKA2
Heating only Cylinder	EHST17D-VM2D	●	●	●	●	●												
	EHST20D-MED	●	●	●	●	●												
	EHST20D-VM2D	●	●	●	●	●												
	EHST20D-VM6D	●	●	●	●	●												
	EHST20D-YM9D	●	●	●	●	●												
	EHST20D-YM9ED	●	●	●	●	●												
	EHST20D-TM9D	●	●	●	●	●												
	EHST30D-MED			●	●	●												
	EHST30D-VM6ED			●	●	●												
	EHST30D-YM9ED			●	●	●												
	EHST30D-TM9ED			●	●	●												
	EHST20C-MED						●	●	●	●			●	●	●	●	●	
	EHST20C-VM2D						●	●	●	●			●	●	●	●	●	
	EHST20C-VM6D						●	●	●	●			●	●	●	●	●	
	EHST20C-YM9D						●	●	●	●			●	●	●	●	●	
	EHST20C-YM9ED						●	●	●	●			●	●	●	●	●	
	EHST20C-TM9D						●	●	●	●			●	●	●	●	●	
	EHST30C-MED						●	●	●	●			●	●	●	●	●	
	EHST30C-VM6ED						●	●	●	●			●	●	●	●	●	
	EHST30C-YM9ED						●	●	●	●			●	●	●	●	●	
	EHST30C-TM9ED						●	●	●	●			●	●	●	●	●	
Reversible Cylinder	ERST17D-VM2D	●	●	●	●	●												
	ERST20D-VM2D	●	●	●	●	●												
	ERST30D-VM2ED			●	●	●												
	ERST20C-VM2D						●	●	●	●			●	●	●	●	●	
	ERST30C-VM2ED						●	●	●	●			●	●	●	●	●	
Heating only Hydro box	EHSD-MED	●	●	●	●	●												
	EHSD-VM2D	●	●	●	●	●												
	EHSD-VM6D	●	●	●	●	●												
	EHSD-YM9D	●	●	●	●	●												
	EHSD-YM9ED	●	●	●	●	●												
	EHSD-TM9D	●	●	●	●	●												
	EHSC-MED						●	●	●	●			●	●	●	●	●	
	EHSC-VM2D						●	●	●	●			●	●	●	●	●	
	EHSC-VM6D						●	●	●	●			●	●	●	●	●	
	EHSC-YM9D						●	●	●	●			●	●	●	●	●	
	EHSC-YM9ED						●	●	●	●			●	●	●	●	●	
	EHSC-TM9D						●	●	●	●			●	●	●	●	●	
	EHSE-YM9ED										●	●						●
	EHSE-MED										●	●						●
Reversible Hydro box	ERSD-MED	●	●	●	●	●												
	ERSD-VM2D	●	●	●	●	●												
	ERSC-MED						●	●	●	●			●	●	●	●	●	
	ERSC-VM2D						●	●	●	●			●	●	●	●	●	
	ERSE-YM9ED										●	●						●
	ERSE-MED										●	●						●

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1811575-1-13<IP>

New publication, effective Sep 2019.
Specifications subject to change without notice.