Daikin Altherma mid temperature split Technical Data ELVH-E6V / ELVH-E9W / ELVX-E6V / ELVX-E9W

TABLE OF CONTENTS
ELVH-E6V / ELVH-E9W / ELVX-E6V / ELVX-E9W

1 Features

1 - 1 ELVH-E9W, ELVH-E6V

Floor standing air to water heat pump for heating and hot water, ideal for low energy houses

- A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- Energy efficient heating only system based on air to water heat pump technology
- Quick configuration in 9 steps in a high resolution colour interface wizard
- Inclusion of all hydraulic components means no third party components are required
- The unit's sleek design blends in with other household appliances.

Onecta app

1 Features
1 - 2 ELVX-E9W, ELVX-E6V

Floor standing air to water heat pump for heating, cooling and hot water; ideal for low energy houses

- A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- For hot water, heating and cooling
- Quick configuration in 9 steps in a high resolution colour interface wizard
- Inclusion of all hydraulic components means no third party components are required
- The unit's sleek design blends in with other household appliances.

Onecta app

2 Specifications

2 - 1 Specifications

Technical specifications				ELVH12S18E6V	ELVH12S23E6V
Heater capacity	Step 1		kW	2	
	Step 2		kW	2 or 4	
Casing	Colour			White + Black	
	Material			Precoated sheet metal	
Dimensions	Unit	Height	mm	1,655	1,855
		Width	mm	595	
		Depth	mm	634	
	Packed unit	Height	mm	1,820	2,020
		Width	mm	720	
		Depth	mm	740	
Weight	Unit		kg	120	129
	Packed unit		kg	139	147
Packing	Material			Wood / Carton / Metal / PE wrapping foil	
	Weight		kg	19	18
PED	Category			Category II	
	Most critical part	Name		Plate heat exchanger	
		Ps*V	Bar*l	60	
Refrigerant side heat exchanger	Type			Plate heat exchanger	
	Quantity			1	
	Plates	Quantity		66	
Pump	Type			Grundfos UPM4L K 15-75 130 9 DKI	
	Nr of speeds			PWM	
	Power input		W	75	
Water side Heat exchanger	Type			Plate heat exchanger	
	Model			ACH43-66AH-F	
	Quantity			1	
	Plates	Quantity		66	
	Water volume		l	1.58	
	Water flow rate	Min.	l/min	20.0 (1)	
Expansion vessel	Volume		l	10	
	Max. water pressure		bar	3	
	Pre pressure		bar	1	
Water filter	Diameter perforations		mm	0.8	
	Material			Stainless steel / Plastic	
Tank	Name			Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L
	Water volume		l	180	230
Tank	Material			Stainless steel (DIN 1.4521)	
	Maximum water temperature		°C	70.0	
	Maximum water pressure		bar	10	
	Insulation	Material		Polyurethane foam	
		Heat loss	kWh/24h	1.2 (2)	1.4 (2)
	Standing heat loss	S	W	50	58
	Storage volume	V	l	181	220
	Corrosion protection			Pickling	
	Energy efficiency class			B	
General	Supplier/ Manufacturer details	Name or trademark		Daikin Europe N.V.	
		Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium	
3-way valve	Coefficient of flow (kV)	Space heating	m^3/h	8	
		Domestic hot water tank	m^3/h	10	
Water circuit	Piping connections diameter		inch	G 1" (female)	
	Piping material			Cu	
	Internal piping diameter		inch	1"	
	Piping		inch	1"	
	Safety valve		bar	3	
	Manometer			Digital	
	Drain valve / fill valve			Yes	
	Shut off valve			Yes	
	Air purge valve			Yes	
	Total water volume		l	4.5 (3)	
	Minimum water volume in the system for cooling		l	20	
	Minimum water volume in the system for heating		l	20	
Water circuit - Domestic hot water side	Piping material			Cu	
	Piping connections	Cold water in / Hot water out	inch	G 3/4" FEMALE	
		Recirculation connection	inch	G 3/4" FEMALE	
Refrigerant circuit	Gas side diameter		mm	15.9	
	Liquid side diameter		mm	6.35	
Sound power level	Nom.		dBA	44.0 (4)	
Sound pressure level	Nom.		dBA	30.0 (4)	

2 Specifications

2 - 1 Specifications

Technical specifications					ELVH12S18E6V	ELVH12S23E6V
Operation range	Heating	Ambient	Min.	°C	-25 (5)	
			Max.	°C	25 (5)	
		Water side	Min.	°C	15 (5)	
			Max.	°C	65 (5)	
	Indoor installation	Ambient	Min.	°CDB	5	
Operation range	Indoor installation	Ambient	Max.	°CDB	35	
	Cooling	Ambient	Min.	°CDB	10 (5)	
			Max.	°CDB	43 (5)	
		Water side	Min.	°C	5 (5)	
			Max.	°C	22 (5)	
	Domestic hot water	Ambient	Min.	°CDB	-25 (5)	
			Max.	°CDB	35 (5)	
		Water side	Min.	°C	25 (5)	
			Max.	°C	62 (5)	
Safety devices	Item	01			Thermal cut out	

Electrical specifications				ELVH12S18E6V	ELVH12S23E6V
Power supply	Name			See note 7	
	Voltage range	Min.	%	-10	
		Max.	%	10	
IP class	IP			X0	
Electric heater	Power supply	Name		6V3	
		Phase		1~ / 3~	
		Voltage	V	230	
	Current	Maximum running current	A	26.0	
		Zmax List	Ω	0.22	
		Minimum Ssc value		Equipment complying with EN/IEC 61000-3-12	
	Recommended fuses		A	20.000 (6)	
Wiring connections	Communication cable	Quantity		3+GRD	
		Remark		1.5 mm²	
	Electric meter	Quantity		2	
		Remark		Minimum 0.75 mm² (5VDC pulse detection)	
	Preferential kWh rate power supply	Quantity		Power: 2	
		Remark		Power 6.3A (Select diameter and type according to national and local regulations)	
	Domestic hot water pump	Quantity		2	
		Remark		Minimum 0.75 mm² (2A inrush, 1A continuous)	
	For power supply back-up heater	Quantity		Prewired	
	For connection with R6T	Quantity		2	
		Remark		Minimum 0.75 mm²	
	For connection with A3P	Quantity		Depends on thermostat type, cf. installation manual	
		Remark		Voltage: 230V / Max. current: 100mA / Min. 0.75mm²	
	For connection with M2S	Quantity		2	
		Remark		Voltage: 230V / Max. current: 100mA / Min. 0.75mm²	
	For connection with optional FWXV* (demand input and output)	Quantity		4	
		Remark		100 mA, minimum 0.75 mm²	

(1)Operation area is extended to lower flow rates depending on operation mode - refer to ESP curve. |
(2)Based on a dT of 45 K |
(3)ncluding piping + PHE + back-up heater; excluding expansion vessel |
(4)Measured with a pressure drop of 10 kPa in the heating system at an operating condition of leaving water 47-55°C in a room with an ambient of 20°C. DB/WB 7°C/6°. |
(5)For more details, see operation range drawing |
(6)4 pole 20 A curve 400V tripping class C (refer to wiring diagram) |
(7)Above mentioned power supply of the hydrobox is for the backup heater only. The switch box and the pump of the hydrobox are supplied via the outdoor unit. The optional domestic hot water tank has a separate power supply.

Technical specifications			ELVH12S18E9W	ELVH12S23E9W
Heater capacity	Step 1	kW	3	
	Step 2	kW	max. 6 kW	
Casing	Colour		White + Black	
	Material		Precoated sheet metal	

2 Specifications

2 - 1 Specifications

Technical specifications				ELVH12S18E9W	ELVH12S23E9W
Dimensions	Unit	Height	mm	1,655	1,855
		Width	mm	595	
		Depth	mm	634	
	Packed unit	Height	mm	1,820	2,020
		Width	mm	720	
		Depth	mm	740	
Weight	Unit		kg	120	129
	Packed unit		kg	139	147
Packing	Material			Wood / Carton / Metal / PE wrapping foil	
	Weight		kg	19	18
PED	Category			Category II	
	Most critical part	Name		Plate heat exchanger	
		Ps*V	Bar*l	60	
Refrigerant side heat exchanger	Type			Plate heat exchanger	
	Quantity			1	
	Plates	Quantity		66	
Pump	Type			Grundfos UPM4L K 15-75 130 9 DKI	
	Nr of speeds			PWM	
	Power input		W	75	
Water side Heat exchanger	Type			Plate heat exchanger	
	Model			ACH43-66AH-F	
	Quantity			1	
	Plates	Quantity		66	
	Water volume		l	1.58	
	Water flow rate	Min.	l/min	20.0 (1)	
Expansion vessel	Volume		l	10	
	Max. water pressure		bar	3	
	Pre pressure		bar	1	
Water filter	Diameter perforations		mm	0.8	
	Material			Stainless steel / Plastic	
Tank	Name			Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L
	Water volume		l	180	230
Tank	Material			Stainless steel (DIN 1.4521)	
	Maximum water temperature		°C	70.0	
	Maximum water pressure		bar	10	
	Insulation	Material		Polyurethane foam	
		Heat loss	kWh/24h	1.2 (2)	1.4 (2)
	Standing heat loss	S	W	50	58
	Storage volume	V	l	181	220
	Corrosion protection			Pickling	
	Energy efficiency class			B	
General	Supplier/ Manufacturer details	Name or trademark		Daikin Europe N.V.	
		Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium	
3-way valve	Coefficient of flow (kV)	Space heating	m^3/h	8	
		Domestic hot water tank	m^3/h	10	
Water circuit	Piping connections diameter		inch	G 1" (female)	
	Piping material			Cu	
	Internal piping diameter		inch	1"	
	Piping		inch	1"	
	Safety valve		bar	3	
	Manometer			Digital	
	Drain valve / fill valve			Yes	
	Shut off valve			Yes	
	Air purge valve			Yes	
	Total water volume		l	4.5 (3)	
	Minimum water volume in the system for cooling		l	20	
	Minimum water volume in the system for heating		l	20	
Water circuit - Domestic hot water side	Piping material			Cu	
	Piping connections	Cold water in / Hot water out	inch	G 3/4" FEMALE	
		Recirculation connection	inch	G 3/4" FEMALE	
Refrigerant circuit	Gas side diameter		mm	15.9	
	Liquid side diameter		mm	6.35	
Sound power level	Nom.		dBA	44.0 (4)	
Sound pressure level	Nom.		dBA	30.0 (4)	

2 Specifications

2 - 1 Specifications

Technical specifications					ELVH12S18E9W	ELVH12S23E9W
Operation range	Heating	Ambient	Min.	°C	-25 (5)	
			Max.	°C	25 (5)	
		Water side	Min.	°C	15 (5)	
			Max.	°C	65 (5)	
	Indoor installation	Ambient	Min.	°CDB	5	
Operation range	Indoor installation	Ambient	Max.	°CDB	35	
	Cooling	Ambient	Min.	°CDB	10 (5)	
			Max.	°CDB	43 (5)	
		Water side	Min.	°C	5 (5)	
			Max.	°C	22 (5)	
	Domestic hot water	Ambient	Min.	°CDB	-25 (5)	
			Max.	°CDB	35 (5)	
		Water side	Min.	°C	25 (5)	
			Max.	°C	62 (5)	
Safety devices	Item	01			Thermal cut out	

Electrical specifications				ELVH12S18E9W	ELVH12S23E9W
Power supply	Name			See note 7	
	Voltage range	Min.	%	-10	
		Max.	%	10	
IP class	IP			X0	
Electric heater	Power supply	Name		9W	
		Phase		3~	
		Voltage	V	400	
	Current	Maximum running current	A	13.0	
	Recommended fuses		A	20.000 (6)	
Wiring connections	Communication cable	Quantity		3+GRD	
		Remark		1.5 mm²	
	Electric meter	Quantity		2	
		Remark		Minimum 0.75 mm² (5VDC pulse detection)	
	Preferential kWh rate power supply	Quantity		Power: 2	
		Remark		Power 6.3A (Select diameter and type according to national and local regulations)	
	Domestic hot water pump	Quantity		2	
		Remark		Minimum 0.75 mm² (2A inrush, 1A continuous)	
	For power supply back-up heater	Quantity		Prewired	
	For connection with R6T	Quantity		2	
		Remark		Minimum 0.75 mm²	
	For connection with A3P	Quantity		Depends on thermostat type, cf. installation manual	
		Remark		Voltage: 230V / Max. current: 100mA / Min. 0.75mm²	
	For connection with M2S	Quantity		2	
		Remark		Voltage: 230V / Max. current: 100mA / Min. 0.75mm²	
	For connection with optional FWXV* (demand input and output)	Quantity		4	
		Remark		100 mA, minimum 0.75 mm²	

(1)Operation area is extended to lower flow rates depending on operation mode - refer to ESP curve. |
(2)Based on a dT of 45 K |
(3)Including piping + PHE + back-up heater; excluding expansion vessel |
(4)Measured with a pressure drop of 10 kPa in the heating system at an operating condition of leaving water 47-55°C in a room with an ambient of 20°C. DB/WB 7°C/6°. |
(5)For more details, see operation range drawing |
(6)4 pole 20 A curve 400V tripping class C (refer to wiring diagram) |
(7)Above mentioned power supply of the hydrobox is for the backup heater only. The switch box and the pump of the hydrobox are supplied via the outdoor unit. The optional domestic hot water tank has a separate power supply.

Technical specifications			ELVX12S18E6V	ELVX12S23E6V
Heater capacity	Step 1	kW	2	
	Step 2	kW	2 or 4	
Casing	Colour		White + Black	
	Material		Precoated sheet metal	

2 Specifications

2 - 1 Specifications

Technical specifications				ELVX12S18E6V	ELVX12S23E6V
Dimensions	Unit	Height	mm	1,655	1,855
		Width	mm	595	
		Depth	mm	634	
	Packed unit	Height	mm	1,820	2,020
		Width	mm	720	
		Depth	mm	740	
Weight	Unit		kg	120	129
	Packed unit		kg	139	147
Packing	Material			Wood / Carton / Metal / PE wrapping foil	
	Weight		kg	19	18
PED	Category			Category II	
	Most critical part	Name		Plate heat exchanger	
		Ps*V	Bar*l	60	
Refrigerant side heat exchanger	Type			Plate heat exchanger	
	Quantity			1	
	Plates	Quantity		66	
Pump	Type			Grundfos UPM4L K 15-75 130 9 DKI	
	Nr of speeds			PWM	
	Power input		W	75	
Water side Heat exchanger	Type			Plate heat exchanger	
	Model			ACH43-66AH-F	
	Quantity			1	
	Plates	Quantity		66	
	Water volume		l	1.58	
	Water flow rate	Min.	l/min	20.0 (1)	
Expansion vessel	Volume		l	10	
	Max. water pressure		bar	3	
	Pre pressure		bar	1	
Water filter	Diameter perforations		mm	0.8	
	Material			Stainless steel / Plastic	
Tank	Name			Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L
	Water volume		l	180	230
Tank	Material			Stainless steel (DIN 1.4521)	
	Maximum water temperature		°C	70.0	
	Maximum water pressure		bar	10	
	Insulation	Material		Polyurethane foam	
		Heat loss	kWh/24h	1.2 (2)	1.4 (2)
	Standing heat loss	S	W	50	58
	Storage volume	V	l	181	220
	Corrosion protection			Pickling	
	Energy efficiency class			B	
General	Supplier/ Manufacturer details	Name or trademark		Daikin Europe N.V.	
		Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium	
3-way valve	Coefficient of flow (kV)	Space heating	m^3/h	8	
		Domestic hot water tank	m^3/h	10	
Water circuit	Piping connections diameter		inch	G 1" (female)	
	Piping material			Cu	
	Internal piping diameter		inch	1"	
	Piping		inch	1"	
	Safety valve		bar	3	
	Manometer			Digital	
	Drain valve / fill valve			Yes	
	Shut off valve			Yes	
	Air purge valve			Yes	
	Total water volume		l	4.5 (3)	
	Minimum water volume in the system for cooling		l	20	
	Minimum water volume in the system for heating		l	20	
Water circuit - Domestic hot water side	Piping material			Cu	
	Piping connections	Cold water in / Hot water out	inch	G 3/4" FEMALE	
		Recirculation connection	inch	G 3/4" FEMALE	
Refrigerant circuit	Gas side diameter		mm	15.9	
	Liquid side diameter		mm	6.35	
Sound power level	Nom.		dBA	44.0 (4)	
Sound pressure level	Nom.		dBA	30.0 (4)	

2 Specifications

2 - 1 Specifications

Technical specifications					ELVX12S18E6V	ELVX12S23E6V
Operation range	Heating	Ambient	Min.	°C	-25 (5)	
			Max.	°C	25 (5)	
		Water side	Min.	°C	15 (5)	
			Max.	°C	65 (5)	
	Indoor installation	Ambient	Min.	°CDB	5	
Operation range	Indoor installation	Ambient	Max.	°CDB	35	
	Cooling	Ambient	Min.	°CDB	10 (5)	
			Max.	°CDB	43 (5)	
		Water side	Min.	°C	5 (5)	
			Max.	°C	22 (5)	
	Domestic hot water	Ambient	Min.	°CDB	-25 (5)	
			Max.	°CDB	35 (5)	
		Water side	Min.	°C	25 (5)	
			Max.	°C	62 (5)	
Safety devices	Item	01			Thermal cut out	

Electrical specifications					ELVX12S18E6V	ELVX12S23E6V
Power supply	Name				See note 7	
	Voltage range	Min.		%	-10	
		Max.		%	10	
IP class	IP				X0	
Electric heater	Power supply	Name			6V3	
		Phase			1~ / 3~	
		Voltage		V	230	
	Current	Maximum running current		A	26.0	
		Zmax	List	Ω	0.22	
		Minimum Ssc value			Equipment complying with EN/IEC 61000-3-12	
	Recommended fuses			A	20.000 (6)	
Wiring connections	Communication cable	Quantity			3+GRD	
		Remark			1.5 mm²	
	Electric meter	Quantity			2	
		Remark			Minimum 0.75 mm² (5VDC pulse detection)	
	Preferential kWh rate power supply	Quantity			Power: 2	
		Remark			Power 6.3A (Select diameter and type according to national and local regulations)	
	Domestic hot water pump	Quantity			2	
		Remark			Minimum 0.75 mm² (2A inrush, 1A continuous)	
	For power supply back-up heater	Quantity			Prewired	
	For connection with R6T	Quantity			2	
		Remark			Minimum 0.75 mm²	
	For connection with A3P	Quantity			Depends on thermostat type, cf. installation manual	
		Remark			Voltage: 230V / Max. current: 100mA / Min. 0.75mm²	
	For connection with M2S	Quantity			2	
		Remark			Voltage: 230V / Max. current: 100mA / Min. 0.75mm²	
	For connection with optional FWXV* (demand input and output)	Quantity			4	
		Remark			100 mA, minimum 0.75 mm²	

(1)Operation area is extended to lower flow rates depending on operation mode - refer to ESP curve. |
(2)Based on a dT of 45 K |
(3)ncluding piping + PHE + back-up heater; excluding expansion vessel |
(4)Measured with a pressure drop of 10 kPa in the heating system at an operating condition of leaving water 47-55°C in a room with an ambient of 20°C. DB/WB 7°C/6°. |
(5)For more details, see operation range drawing |
(6)4 pole 20 A curve 400V tripping class C (refer to wiring diagram) |
(7)Above mentioned power supply of the hydrobox is for the backup heater only. The switch box and the pump of the hydrobox are supplied via the outdoor unit. The optional domestic hot water tank has a separate power supply.

Technical specifications			ELVX12S18E9W	ELVX12S23E9W
Heater capacity	Step 1	kW	3	
	Step 2	kW	max. 6 kW	
Casing	Colour		White + Black	
	Material		Precoated sheet metal	

2 Specifications

2 - 1 Specifications

Technical specifications				ELVX12S18E9W	ELVX12S23E9W
Dimensions	Unit	Height	mm	1,655	1,855
		Width	mm	595	
		Depth	mm	634	
	Packed unit	Height	mm	1,820	2,020
		Width	mm	720	
		Depth	mm	740	
Weight	Unit		kg	120	129
	Packed unit		kg	139	147
Packing	Material			Wood / Carton / Metal / PE wrapping foil	
	Weight		kg	19	18
PED	Category			Category II	
	Most critical part	Name		Plate heat exchanger	
		Ps*V	Bar*l	60	
Refrigerant side heat exchanger	Type			Plate heat exchanger	
	Quantity			1	
	Plates	Quantity		66	
Pump	Type			Grundfos UPM4L K 15-75 130 9 DKI	
	Nr of speeds			PWM	
	Power input		W	75	
Water side Heat exchanger	Type			Plate heat exchanger	
	Model			ACH43-66AH-F	
	Quantity			1	
	Plates	Quantity		66	
	Water volume		l	1.58	
	Water flow rate	Min.	l/min	20.0 (1)	
Expansion vessel	Volume		l	10	
	Max. water pressure		bar	3	
	Pre pressure		bar	1	
Water filter	Diameter perforations		mm	0.8	
	Material			Stainless steel / Plastic	
Tank	Name			Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L
	Water volume		l	180	230
Tank	Material			Stainless steel (DIN 1.4521)	
	Maximum water temperature		°C	70.0	
	Maximum water pressure		bar	10	
	Insulation	Material		Polyurethane foam	
		Heat loss	kWh/24h	1.2 (2)	1.4 (2)
	Standing heat loss	S	W	50	58
	Storage volume	V	l	181	220
	Corrosion protection			Pickling	
	Energy efficiency class			B	
General	Supplier/ Manufacturer details	Name or trademark		Daikin Europe N.V.	
		Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium	
3-way valve	Coefficient of flow (kV)	Space heating	m^3/h	8	
		Domestic hot water tank	m^3/h	10	
Water circuit	Piping connections diameter		inch	G 1" (female)	
	Piping material			Cu	
	Internal piping diameter		inch	1"	
	Piping		inch	1"	
	Safety valve		bar	3	
	Manometer			Digital	
	Drain valve / fill valve			Yes	
	Shut off valve			Yes	
	Air purge valve			Yes	
	Total water volume		l	4.5 (3)	
	Minimum water volume in the system for cooling		l	20	
	Minimum water volume in the system for heating		l	20	
Water circuit - Domestic hot water side	Piping material			Cu	
	Piping connections	Cold water in / Hot water out	inch	G 3/4" FEMALE	
		Recirculation connection	inch	G 3/4" FEMALE	
Refrigerant circuit	Gas side diameter		mm	15.9	
	Liquid side diameter		mm	6.35	
Sound power level	Nom.		dBA	44.0 (4)	
Sound pressure level	Nom.		dBA	30.0 (4)	

2 Specifications

2 - 1 Specifications

Technical specifications					ELVX12S18E9W	ELVX12S23E9W
Operation range	Heating	Ambient	Min.	°C	-25 (5)	
			Max.	°C	25 (5)	
		Water side	Min.	°C	15 (5)	
			Max.	°C	65 (5)	
	Indoor installation	Ambient	Min.	°CDB	5	
Operation range	Indoor installation	Ambient	Max.	°CDB	35	
	Cooling	Ambient	Min.	°CDB	10 (5)	
			Max.	°CDB	43 (5)	
		Water side	Min.	°C	5 (5)	
			Max.	°C	22 (5)	
	Domestic hot water	Ambient	Min.	°CDB	-25 (5)	
			Max.	°CDB	35 (5)	
		Water side	Min.	°C	25 (5)	
			Max.	°C	62 (5)	
Safety devices	Item	01			Thermal cut out	

Electrical specifications				ELVX12S18E9W	ELVX12S23E9W
Power supply	Name			See note 7	
	Voltage range	Min.	%	-10	
		Max.	%	10	
IP class	IP			X0	
Electric heater	Power supply	Name		9W	
		Phase		3~	
		Voltage	V	400	
	Current	Maximum running current	A	13.0	
	Recommended fuses		A	20.000 (6)	
Wiring connections	Communication cable	Quantity		3+GRD	
		Remark		1.5 mm²	
	Electric meter	Quantity		2	
		Remark		Minimum 0.75 mm² (5VDC pulse detection)	
	Preferential kWh rate power supply	Quantity		Power: 2	
		Remark		Power 6.3A (Select diameter and type according to national and local regulations)	
	Domestic hot water pump	Quantity		2	
		Remark		Minimum 0.75 mm² (2A inrush, 1A continuous)	
	For power supply back-up heater	Quantity		Prewired	
	For connection with R6T	Quantity		2	
		Remark		Minimum 0.75 mm²	
	For connection with A3P	Quantity		Depends on thermostat type, cf. installation manual	
		Remark		Voltage: 230V / Max. current: 100mA / Min. 0.75mm²	
	For connection with M2S	Quantity		2	
		Remark		Voltage: 230V / Max. current: 100mA / Min. 0.75mm²	
	For connection with optional FWXV* (demand input and output)	Quantity		4	
		Remark		100 mA, minimum 0.75 mm²	

(1)Operation area is extended to lower flow rates depending on operation mode - refer to ESP curve. |
(2)Based on a dT of 45 K |
(3)ncluding piping + PHE + back-up heater; excluding expansion vessel |
(4)Measured with a pressure drop of 10 kPa in the heating system at an operating condition of leaving water 47-55°C in a room with an ambient of 20°C. DB/WB 7°C/6°. |
(5)For more details, see operation range drawing |
(6)4 pole 20 A curve 400V tripping class C (refer to wiring diagram) |
(7)Above mentioned power supply of the hydrobox is for the backup heater only. The switch box and the pump of the hydrobox are supplied via the outdoor unit. The optional domestic hot water tank has a separate power supply.

3 Electrical data

3 - 1 Electrical Data

ELBH-E6V
ELBH-E9W
ELBX-E6V
ELBX-E9W
ELSH-E
ELSHB-E
ELSX-E
ELSXB-E
ELVH-E6V
ELVH-E9W
ELVX-E6V
ELVX-E9W
ELVZ-E6V
ELVZ-E9W

* Electrical meter specification

- Pulse meter type/voltage-free contact for 5 V DC detection by PCB.
- Possible number of pulses
  - ·0.1· pulse/kWh
  - ·1· pulse/kWh
  - ·10· pulse/kWh
  - ·100· pulse/kWh
  - ·1000· pulse/kWh
- Pulse duration
  - minimum On time: ·40ms·
  - Minim
- Measurement type (depending on installation)
  - Single-phase AC meter
  - Three-phase AC meter
    - Balanced loads
  - Three-phase AC meter
    - Unbalanced loads

* Electrical meter installation guideline

- It is the responsibility of the installer to cover the complete power consumption with electrical meters (combination of estimation and metering is not allowed).
- Required number of electrical meters

Outdoor unit type		ERRA(08/10/12)EA*								
Indoor unit type		ELS(H/X)(B)12P(30/50)EF			ELB(H/X)12EF*			ELV(H/X/Z)12S(18/23)EJ*		
Backup heater type		EKECBU*	EKECBU*	EKECBU*	6V		9W	6V		9W
Backup heater power		1~	1~	3~	1~	3~	3~	1~	3~	3~
Backup heater		1 / 2 / 3	2 / 4 / 6	3 / 6 / 9	2 / 4 / 6	6 kW	3 / 6 / 9	2 / 4 / 6	6 kW	3 / 6 / 9
Normal kWh rate power supply										
Electrical meter type	1~	1	1	-	1	-	-	1	-	-
	3~ balanced	-	-	-	-	-	-	-	-	-
	3~ unbalanced	-	-	1	-	1	1	-	1	1
Preferential kWh rate power supply										
Electrical meter type	1~	2	2	1	2	1	1	2	1	1
	3~ balanced	-	-	-	-	-	-	-	-	-
	3~ unbalanced	-	-	1	-	1	1	-	1	1

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3 Electrical data

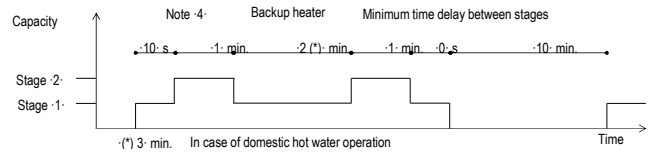
3 - 1 Electrical Data

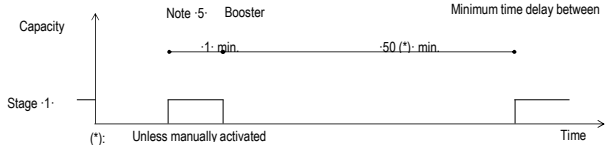
ELBH-E6V
ELBH-E9W
ELBX-E6V
ELBX-E9W
ELVH-E6V
ELVH-E9W
ELVX-E6V
ELVX-E9W
ELVZ-E6V
ELVZ-E9W

Electrical specifications of the backup heaters and booster heaters

Backup heater	Type					**6V**					**9W**				
	Capacity setting				[kW]	**2 - 4**	**2 - 6**	**·2-4· (in case of emergency: ·2·**		**6**	**3 - 6**	**3 - 9**	**·3 - 6· (in case of**	
	Capacity stage · ·					**2**	**2**	**2**	**2**	**1**	**2**	**2**	**2**	**2**
	Capacity stage ·1·				kW	**2**	**2**	**2**	**2**	**6**	**3**	**3**	**3**	**3**
	Capacity stage ·2·				kW	**4**	**6**	**4**	**6**	**-**	**6**	**9**	**6**	**9**
	Minimum time delay between stages					**Note ·4·**					**Note ·4·**			
	Power supply (1)	Phase				1~				3~	3~			
		Frequency			Hz	50								
		Voltage			V	230 +-10%					400 +-10%			
	Current	Nominal running current			A	17,4	26,1	17,4	26,1	15	8,7	13	8,7	13
		Zmax (backup heater)	(2)		Complex	0,22				-	-			
		Minimum Ssc value			kVA	(3)					-			
Booster heater (optional)(·* KHW*· models)	Capacity setting				kW	3								
	Capacity stage · ·					1								
	Minimum time delay between stages					**Note ·5·**								
	Nominal running current			+EK*V3	A	13								
	Booster heater			+EK*Z2		-				75				
	Zmax	Booster heater	(2)			-								
					Complex	-								
	Nominal running current	Backup heater ·+·	Booster heater	Backup heater ·+ EK*V3·	A	30,4 (17,4+13)	39,1 (26,1+13)	30,4 (17,4+13)	39,1 (26,1+13)	28 (15 + 13)	21,7 (8,7+13)	26 (13+13	21,7 (8,7+13)	26 (13+13
				Backup heater ·+ EK*Z2·	A					22,5 (15 + 7,5)	16,2 (8,7+7,5)	20,5 (13+7,5)	16,2 (8,7+7,5)	20,5 (13+7,5)
	Minimum Ssc value	Backup heater ·+·	Booster heater ·+ EK*V3·		kVA	(3)								
			Booster heater ·+ EK*Z2·		kVA	-				(3)	-	(3)	-	(3)

Notes	(1)	The above-mentioned power supply of the hydrobox is for the backup heater only. The optional domestic hot water tank has a separate power supply.
	(2)	In accordance with EN/IEC 61000-3-11, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Zsys ≤ Zmax.
	(3)	The equipment complies with EN/IEC 61000-3-12.
	EN/IEC 61000-3-11	European/International Technical Standard setting the limits for voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated current ≤ 75 A.
	EN/IEC 61000-3-12	European/International Technical Standard setting the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase.
	Zsys	System impedance





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4 Combination table

4 - 1 Combination Table

ELVH-E6V
ELVH-E9W
ELVX-E6V
ELVX-E9W
ELVZ-E6V
ELVZ-E9W

Factory-mounted equipment for ·ELV(H/X/Z)12S*EJ*·

Description	ELV(H/X/Z)12S*EJ*			
Heating only model ·ELVH·	18 - 6V (8)	18 - 9W (8)	23 - 6V (8)	23 - 9W (8)
Reversible model ·ELVX·	18 - 6V (8)	18 - 9W (8)	23 - 6V (8)	23 - 9W (8)
Integrated Bizone ·ELVZ·	18 - 6V (8)	18 - 9W (8)	23 - 6V (8)	23 - 9W (8)
Backup heater ·2-4-6kW 1N~230 V·	o	-	o	-
Backup heater ·2-4-6kW 3~230 V·	o	-	o	-
Backup heater ·3-6-9kW 3N~400 V·	-	o	-	o
Domestic hot water tank ·180L·	o	o	-	-
Domestic hot water tank ·230L·	-	-	o	o

Outdoor combination table for ·ELV(H/X/Z)12S(18/23)EJ·

		ERRA08EA(V3/W1)	ERRA10EA(V3/W1)	ERRA12EA(V3/W1)
ELVH12S(18/23)EJ*	Heating only indoor unit	o	o	o
ELVX12S(18/23)EJ*	Reversible indoor unit	o	o	o
ELVZ12S(18/23)EJ*	Integrated Bizone	o	o	o

Kit availability for indoor units

Reference	Description		ETV*12S*EJ*			
ELVH*	Heating only indoor unit		18 - 6V	18 - 9W	23 - 6V	23 - 9W
ELVX*	Reversible indoor unit		18 - 6V	18 - 9W	23 - 6V	23 - 9W
ELVZ*	Integrated Bizone		18 - 6V	18 - 9W	23 - 6V	23 - 9W
EKRP1HBAA	Digital I/O PCB	*(1) (2)	o	o	o	o
EKRP1AHTA	Demand PCB	*(3)	o	o	o	o
BRC1HHDA*	HCI (Human Comfort Interface)		o	o	o	o
EKPCCAB4	PC cable	*(4)	o	o	o	o
KRCS01-1	Remote indoor sensor	*(5)	o	o	o	o
EKRSCA1	Remote sensor for outdoor	*(5)	o	o	o	o
EKCC8-W	Universal centralised user interface		o	o	o	o
DCOM-LT/IO	DCOM gateway		o	o	o	o
DCOM-LT/MB	DCOM gateway		o	o	o	o
EKHVCONV4	Conversion kit: heating only to reversible.		o	o	o	o
FWXV10-15-20ATV3	Heat pump convector	*(6)	o	o	o	o
FWXT10-15-20ATV3	Heat pump convector	*(6)	o	o	o	o
FWXM10-15-20ATV3	Heat pump convector	*(6)	o	o	o	o
EKVKHPC	Heat pump convector valve kit		o	o	o	o
EKRTWA	Wired room thermostat		o	o	o	o
EKRTRB	Wireless room thermostat		o	o	o	o
EKRTETS	External sensor room thermostat	*(7)	o	o	o	o
EKWUFHTA1V3	Multi-zoning base unit 230 V	*(9)	o	o	o	o
EKWCTRDI1V3	Digital thermostat 230 V	*(9)	o	o	o	o
EKWCTRAN1V3	Analogue thermostat 230 V	*(9)	o	o	o	o
EKWCVATR1V3	Actuator 230 V	*(9)	o	o	o	o
EKRELSG	Relay for Smart Grid		o	o	o	o
BRP069A71	WLAN module	*(10)	o	o	o	o
BRP069A62	LAN module	*(10)	o	o	o	o
ESAE04AA01*	Daikin Residential Controller		o	o	o	o

Kit availability for outdoor units

Reference	Description	ERRA08EA(V3/W1)	ERRA10EA(V3/W1)	ERRA12EA(V3/W1)
EKMST1	Mounting stand	o	o	o
EKMST2	Mounting stand	o	o	o

Reference	Description			
	Only applicable for ·ELVH* & ELVX*· models		ELVH*	ELVX*
EKMIKPOA	Mixing kit – PCB only		o	o
EKMIKPHA	Mixing kit – PCB with hydraulics		o	o
EKMIKHMA	Hydraulics – mixed pump group	*(11)	o	o
EKMIKHUA	Hydraulics – unmixed pump group	*(11)	o	o
EKMIKBVA	Balancing vessel		o	o
EKMIKDIA	Distributor for balancing vessel	*(12)	o	o

Notes

(1) PCB that provides additional output connections: · ·
  (a) Control external heat source (bivalent operation).
  (b) Output remote ON/OFF signal space heating/cooling
  (c) Remote alarm output
(2) Additional relays to allow bivalent control in combination with an external room thermostat are field-supplied.
(3) PCB to receive up to ·4· digital inputs for power limitation
(4) Data cable for connection with PC.
(5) Only 1 remote sensor can be connected: indoor OR outdoor sensor.
(6) The valve kit is mandatory if a heat pump convector is installed on a reversible model (not mandatory for heating only models).
(7) ·EKRTETS· can only be used in combination with ·EKRTRB·
(8) The backup heater capacity depends on a user interface setting.
(9) Multi-zoning wired controls
(10) The WLAN cartridge is supplied in the accessory bag of the unit and is meant to be plugged into the SD card slot on the MMI-2. In case of bad signal reception, the WLAN cartridge can be removed and replaced by the WLAN or LAN module.
(11) Only possible in combination with ·EKMIKPOA·
(12) Only possible in combination with ·EKMIKBVA· and ·EKMIKPHA· or ·EKMIKHUA·

Remark

Other combinations than mentioned in this combination table are prohibited.

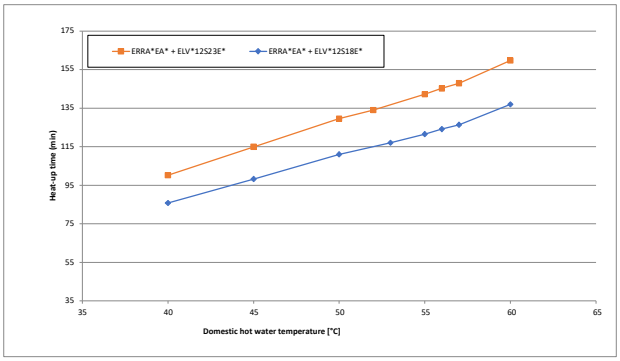
4D143279

5 Capacity tables

5 - 1 Domestic Hot Water performance

ELSH-E
ELSHB-E
ELSX-E
ELSXB-E
ELVH-E6V
ELVH-E9W
ELVX-E6V
ELVX-E9W
ELVZ-E6V
ELVZ-E9W

Heat-up times

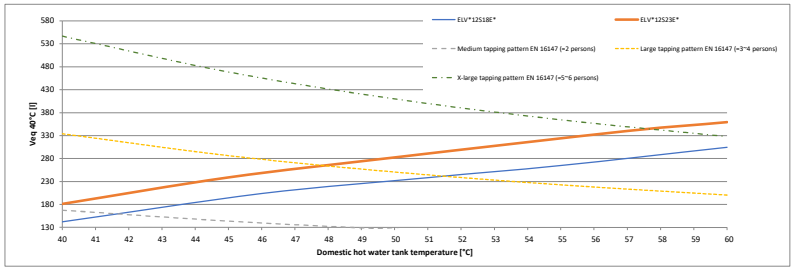


Notes
1. Time the indoor unit (**heat pump only operation**) requires to heat up the domestic hot water tank from 10°C to the indicated temperature. See the operation range for maximum domestic hot water tank temperature during heat pump only operation.

Model name	Heat-up time domestic hot water tank until
ERRA(08/10/12)EA* + ELV*12S18E*	·98· min.
ERRA(08/10/12)EA* + ELV*12S23E*	·115· min.

Selection guide for the domestic hot water tank volume

Veq 40°C = the amount of water with a temperature of 40°C that can be tapped when the domestic hot water tank is heated to a certain temperature, and the temperature of the cold inlet water is 10°C.



If a higher daily Veq 40°C is required, then additional heat-up cycles are required within 24 hours.
See the operation manual for more information.

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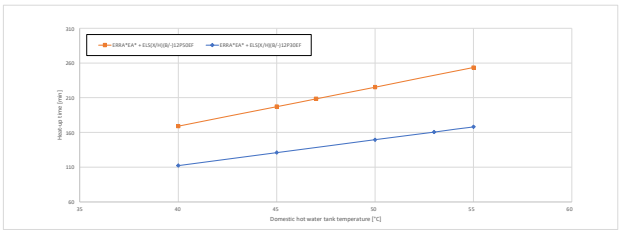
ELSH-E / ELSHB-E / ELSX-E / ELSXB-E / ELVH-E6V / ELVH-E9W / ELVX-E6V / ELVX-E9W / ELVZ-E6V / ELVZ-E9W

Heat-up times

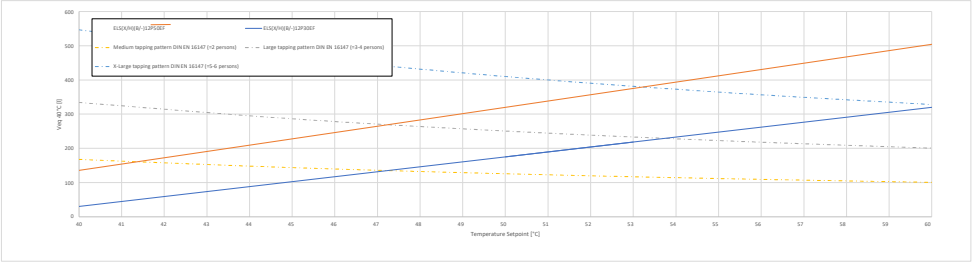


	Heat-up time domestic hot water tank until 45°C
ERRA*EA* + ELS(X/H)(B/-)12P30EF	-131- min.
ERRA*EA* + ELS(X/H)(B/-)12P50EF	-197- min.

Notes
1. Time the indoor unit (**heat pump only operation**) requires to heat up the domestic hot water tank from 10°C to the indicated temperature. See the operation range for maximum domestic hot water tank temperature during heat pump only operation.

Selection guide for the domestic hot water tank volume

Veq 40°C = the amount of water with a temperature of 40°C that can be tapped when the domestic hot water tank is heated to a certain temperature, and the temperature of the cold inlet water is 10°C.



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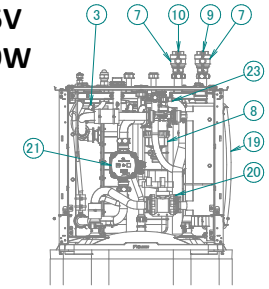
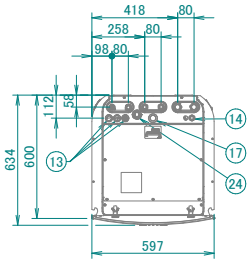
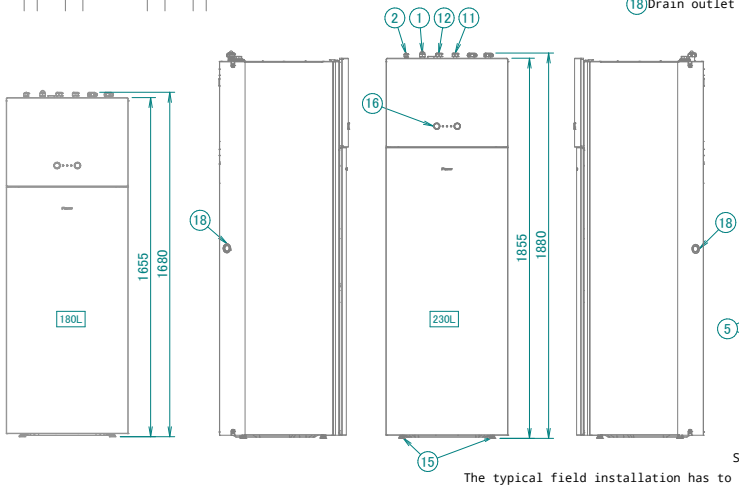
6 Dimensional drawings

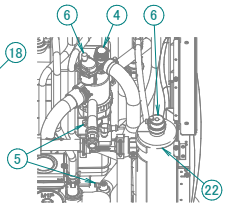
6 - 1 Dimensional Drawings

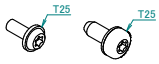
ELVH-E6V
ELVH-E9W
ELVX-E6V
ELVX-E9W











1 Gas pipe connection ·Ø15.9· flare
2 Liquid pipe connection ·Ø 6.35· flare
3 Space heating water pressure sensor
4 Safety valve
5 Drain valve water circuit
6 Air purge
7 Shut-off valve
8 Magnetic filter / dirt separator
9 Water in connection ·1" BSP·
10 Water out connection ·1" BSP·
11 Domestic hot water: cold water in ·3/4" BSP-F·
12 Domestic hot water: hot water out ·3/4" BSP-F·
13 High voltage wiring intake ·Ø24 mm·
14 Low voltage wiring intake ·Ø15 mm·
15 Levelling feet
16 User interface
17 Recirculation connection ·G3/4"· (female)
18 Drain outlet (unit + safety valve)
19 Expansion vessel
20 3-way valve
21 Pump
22 Backup heater
23 Flow sensor
24 Chimney ··

Screws used in this unit:

The typical field installation has to be done according to the applicable legislation.

For examples, refer to the installer reference guide.

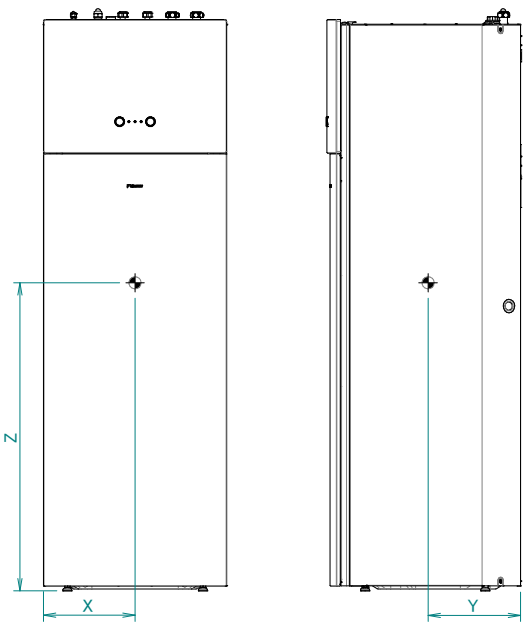
3D143264

7 Centre of gravity

7 - 1 Centre of Gravity

ELVH-E6V
ELVH-E9W
ELVX-E6V
ELVX-E9W
ELVZ-E6V
ELVZ-E9W

MODEL	X	Y	Z
ELV(H/X)12S18EJ*	300	290	940
ELV(H/X)12S23EJ*	300	295	1070
ELVZ16S18EJ*	290	300	970
ELVZ16S23EJ*	290	305	1090



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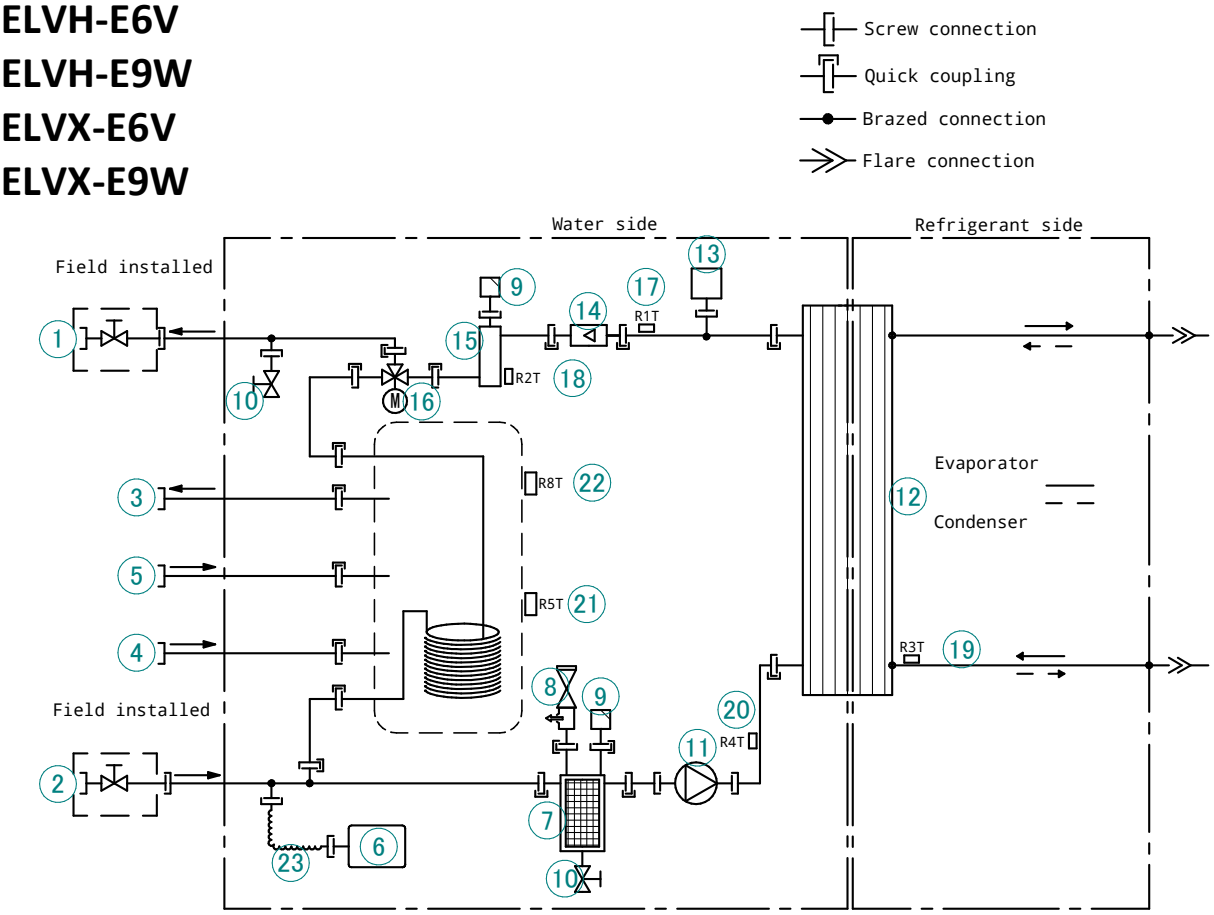
8 Piping diagrams

8 - 1 Piping Diagrams

ELVH-E6V
ELVH-E9W
ELVX-E6V
ELVX-E9W



1. Space heating - water OUT
2. Space heating - water IN
3. Domestic hot water: hot water out
4. Domestic hot water: cold water in
5. Recirculation connection
6. Expansion vessel
7. Magnetic filter / dirt separator
8. Safety valve
9. Air purge
10. Drain valve
11. Pump
12. Plate heat exchanger
13. Space heating water pressure sensor
14. Flow sensor
15. Backup heater
16. 3-way valve (space heating/domestic hot water)
17. R1T -Outlet water heat exchanger thermistor
18. R2T -Outlet water backup heater thermistor
19. R3T -Thermistor (heat exchanger, liquid pipe)
20. R4T -Inlet water thermistor
21. R5T -Tank thermistor
22. R8T -Tank thermistor
23. Flexible pipe

3D143248

NOTES to go through before starting the unit

X1M : Main terminal
X2M : Field wiring terminal for AC
X5M : Field wiring terminal for DC
X6M : BUH Power supply terminal
X10M : Smartgrid terminal

: Earth wiring
: Field supply
(1) : Several wiring possibilities
: Option
: Not mounted in switch box
: Wiring depending on model
: PCB

Note 1 : Connection point of the power supply for the BUH should be foreseen outside the unit.

Backup heater power supply
- ☐ 6T1 (3~, 230V, 6kW)
- ☐ 6V3 (1N~, 230V, 6kW)
- ☐ 6WN/9WN (3N~, 400V, 6/9kW)

User installed options:
- ☐ LAN adapter
- ☐ Remote user interface
- ☐ Ext. indoor thermistor
- ☐ Ext. outdoor thermistor
- ☐ Digital I/O PCB
- ☐ Demand PCB
- ☐ Safety thermostat
- ☐ Smartgrid kit
- ☐ WLAN adapter module
- ☐ WLAN cartridge
- ☐ Bizone mixing kit

Main LWT:
- ☐ On/OFF thermostat (wired)
- ☐ On/OFF thermostat (wireless)
  - ☐ Ext. thermistor
- ☐ Heat pump convector

Add LWT:
- ☐ On/OFF thermostat (wired)
- ☐ On/OFF thermostat (wireless)
  - ☐ Ext. thermistor
- ☐ Heat pump convector

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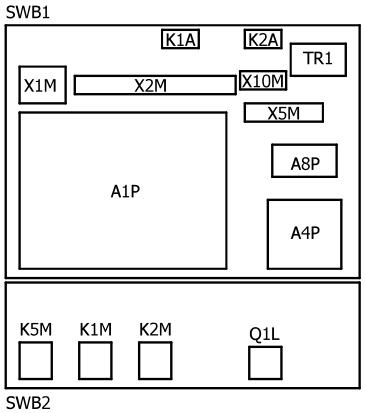
POSITION IN SWITCH BOX



LEGEND

Translation can be found in the installation manual.

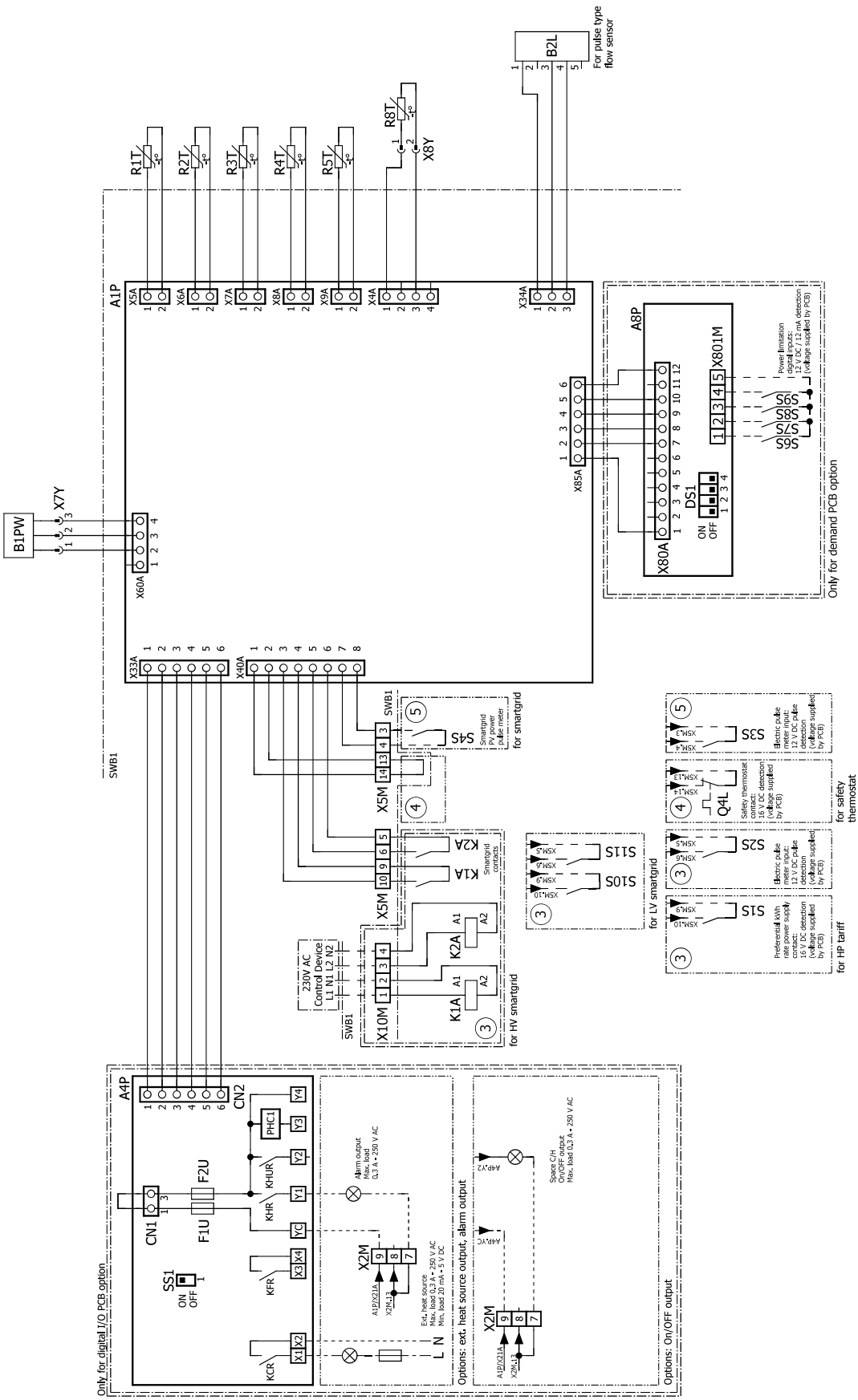
* : optional
\# : field supply

Part n°		Description
A1P		main PCB
A2P	*	On/OFF thermostat (PC=power circuit)
A3P	*	heat pump convector
A4P	*	digital I/O PCB
A8P	*	demand PCB
A9P		status indicator
A11P		MMI main PCB
A13P	*	LAN adapter
A14P	*	user interface PCB
A15P	*	receiver PCB (wireless On/OFF thermostat)
A20P	*	WLAN module
A30P	*	Bizone mixing kit PCB
B2L		pulse type flow sensor
B1PW		water pressure sensor
CN* (A4P)	*	connector
DS1 (A8P)	*	dipswitch
E1H		backup heater element (1 kW)
E2H		backup heater element (2 kW)
E*P (A9P)		indication LED
F1B	#	overcurrent fuse backup heater
F1T		thermal fuse backup heater
F1U, F2U (A4P)	*	fuse 5 A 250 V for digital I/O PCB
FU1 (A1P)		fuse T 5 A 250 V for PCB
K1A, K2A	*	high voltage smartgrid relay
K1M, K2M		contactor backup heater
K5M		safety contactor BUH
K*R (A1P-A4P)		relay on PCB
M1P		main supply pump
M2P	#	domestic hot water pump
M2S	#	2 way valve for cooling mode
M3S		3 way valve for spaceheating /domestic hot water
P1M		MMI display
PC (A15P)	*	power circuit
PHC1 (A4P)	*	optocoupler input circuit
Q1L		thermal protector backup heater
Q4L	#	safety thermostat
Q*DI	#	earth leakage circuit breaker
R1H (A2P)	*	humidity sensor
R1T (A1P)		outlet water heat exchanger thermistor
R1T (A2P)	*	ambient sensor On/OFF thermostat
R1T (A14P)	*	ambient sensor user interface
R2T (A1P)		outlet backup heater thermistor
R2T (A2P)	*	external sensor (floor or ambient)
R3T		refrigerant liquid side thermistor
R4T		inlet water thermistor
R5T, R8T		domestic hot water thermistor
R6T	*	external indoor or outdoor ambient thermistor
S1S	#	preferential kWh rate PS contact
S2S	#	electrical meter pulse input 1
S3S	#	electrical meter pulse input 2
S4S	#	smartgrid feed-in
S6S-S9S	*	digital power limitation inputs
S10S-S11S	#	low voltage smartgrid contact
SS1 (A4P)	*	selector switch
SW1~2 (A11P)		turn buttons
SW3~5 (A11P)		push button
TR1		power supply transformer
X6M	#	BUH power supply terminal strip
X10M	*	smartgrid power supply terminal strip
X*, X*A, X*H*, X*Y		connector
X*M		terminal strip

9 Wiring diagrams

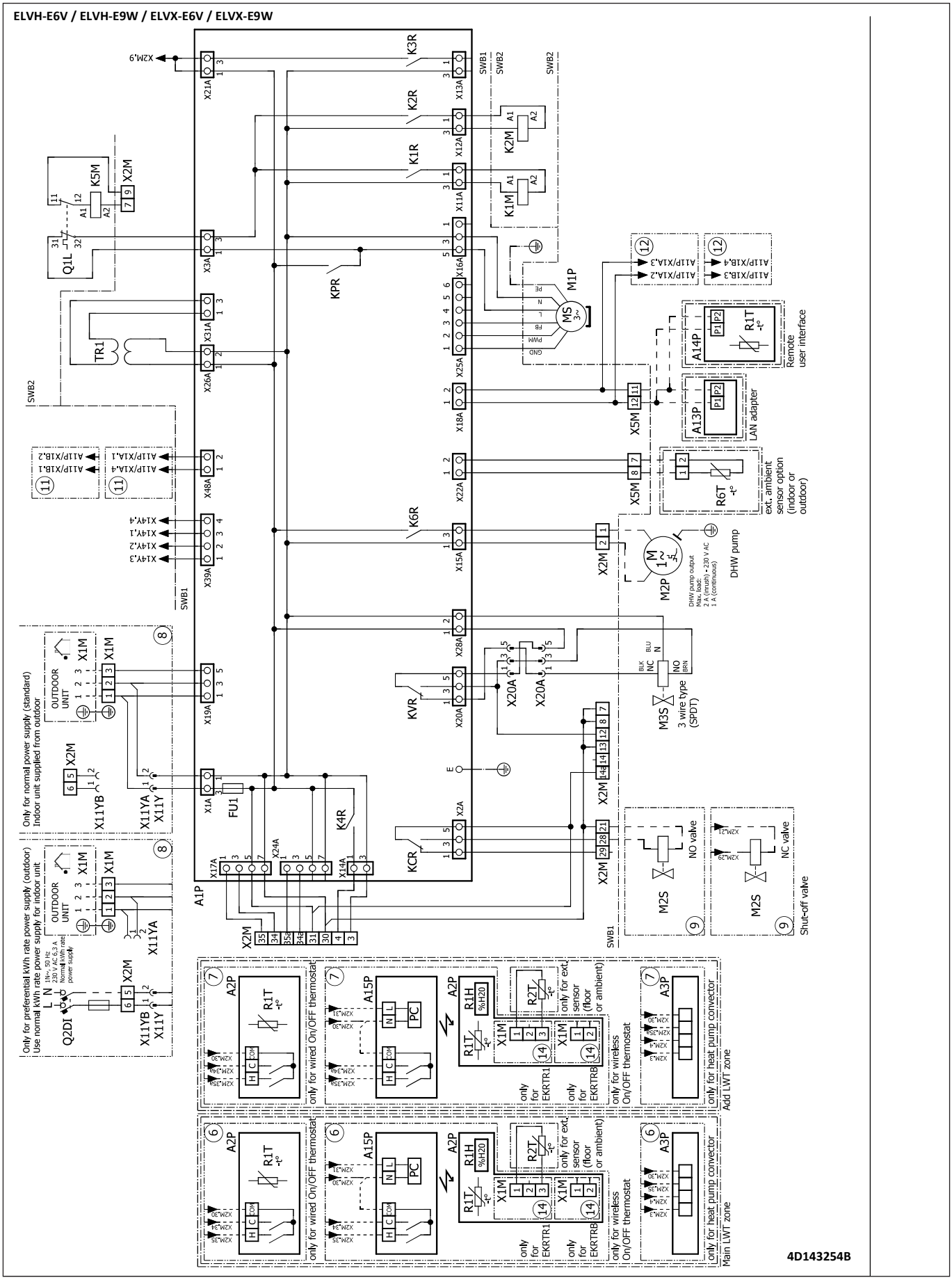
9 - 2 Control Circuit

ELVH-E6V / ELVH-E9W / ELVX-E6V / ELVX-E9W



9 Wiring diagrams

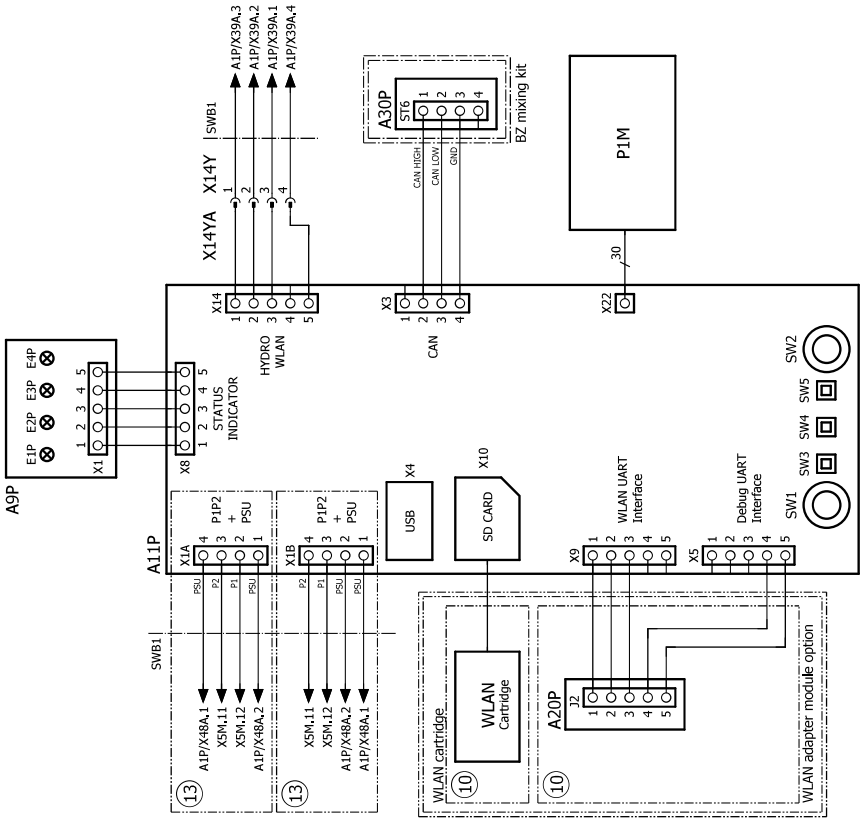
9 - 2 Control Circuit



9 Wiring diagrams

9 - 2 Control Circuit

ELVH-E6V / ELVH-E9W / ELVX-E6V / ELVX-E9W



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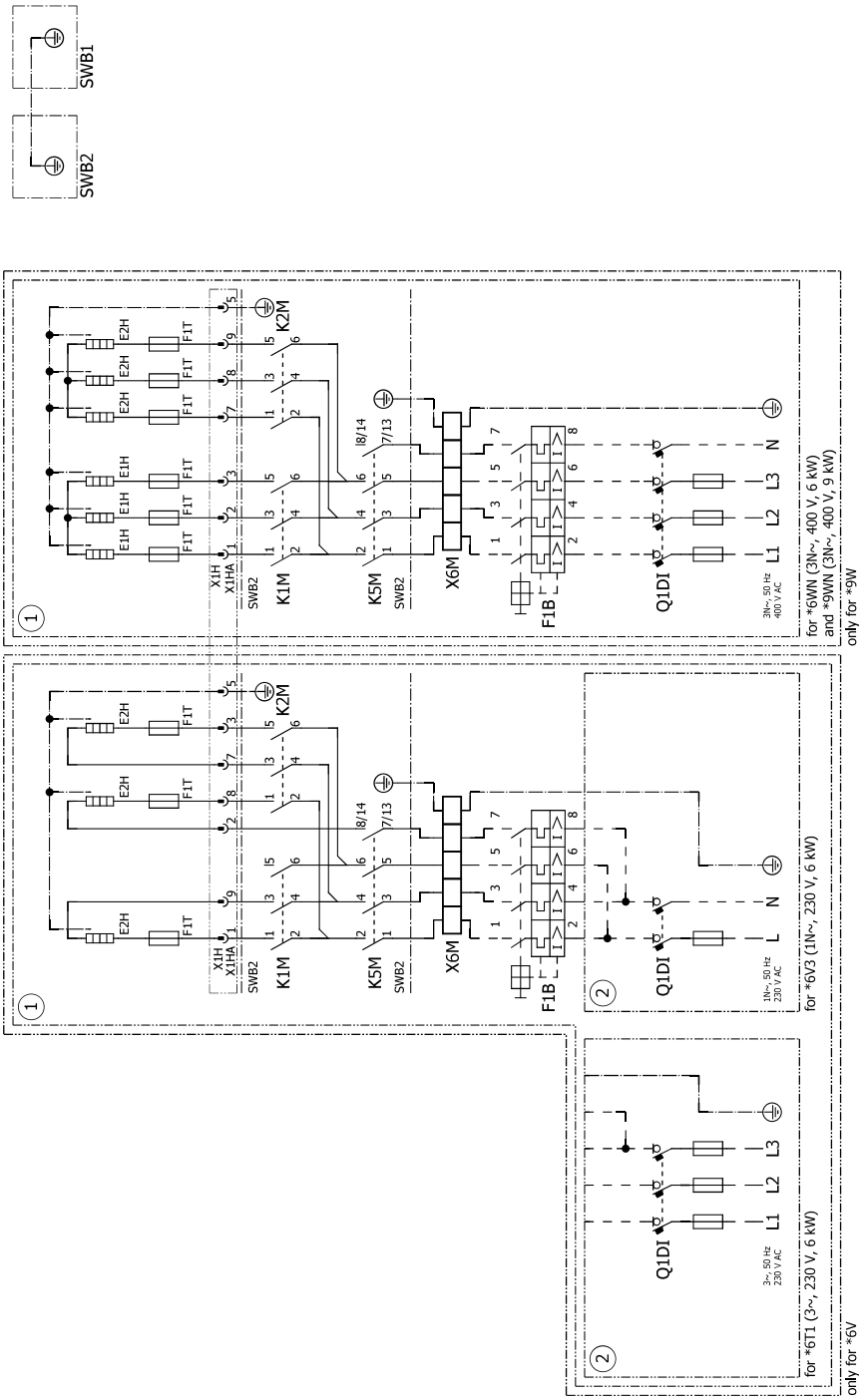
9 Wiring diagrams

9 - 3 Power Supply, Back-up Heater

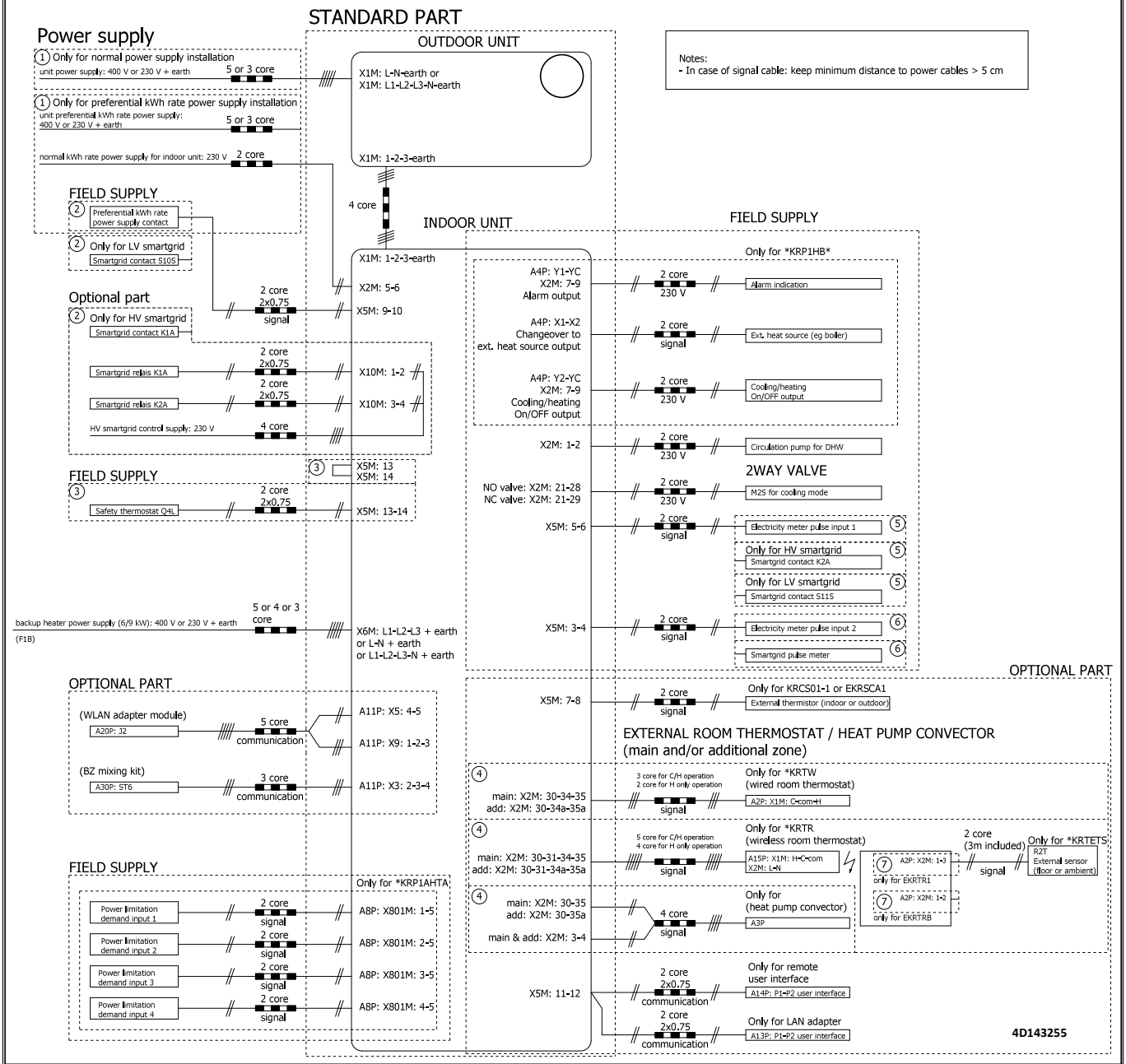
ELVH-E6V / ELVH-E9W / ELVX-E6V / ELVX-E9W



10 External connection diagrams

10 - 1 External Connection Diagrams

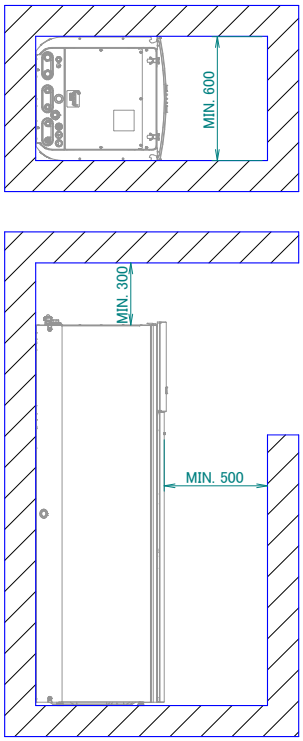
ELVH-E6V / ELVH-E9W / ELVX-E6V / ELVX-E9W



11 Installation

11 - 1 Installation Method

ELVH-E6V
ELVH-E9W
ELVX-E6V
ELVX-E9W
ELVZ-E6V
ELVZ-E9W



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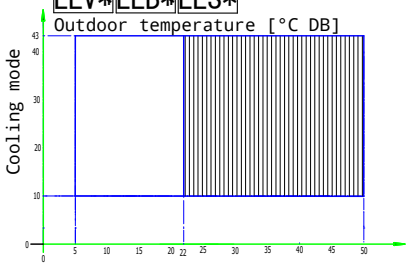
12 Operation range

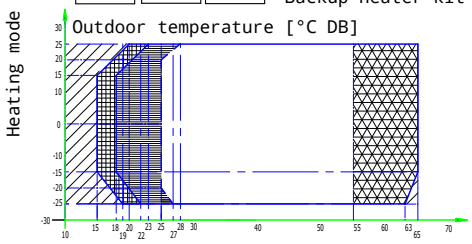
12 - 1 Operation Range

ELBH-E6V
ELBH-E9W
ELBX-E6V
ELBX-E9W
ELSH-E
ELSHB-E
ELSX-E
ELSXB-E
ELVH-E6V
ELVH-E9W
ELVX-E6V
ELVX-E9W
ELVZ-E6V
ELVZ-E9W

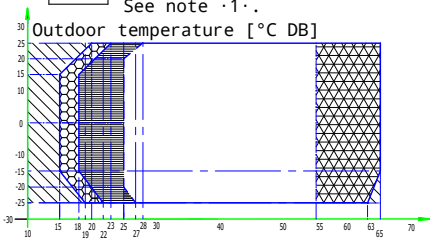
ELV*ELB*ELS*



ELV*ELB*ELS* Backup heater / Backup heater kit



ELS* No backup heater / With tank preheating / See note ·1·.



Legend
- Backup heater only operation / No outdoor unit operation
- Heat pump + backup heater operation / Pull-up area
- Auxiliary boiler only operation / No outdoor unit operation
- Heat pump + auxiliary boiler operation / Pull-up area
- Outdoor unit operation if controller setpoint is regulated to minimal leaving water temperature request.

See dashed lines

Outdoor unit operation if setpoint >·55·°C and ΔT = ·10·°C (ΔT = outlet temperature – inlet temperature)

Pull-down area

Notes
1.Tank preheating
For details, see the installer reference guide.
2.In restricted power supply mode, the outdoor unit and backup heater can only operate separately.

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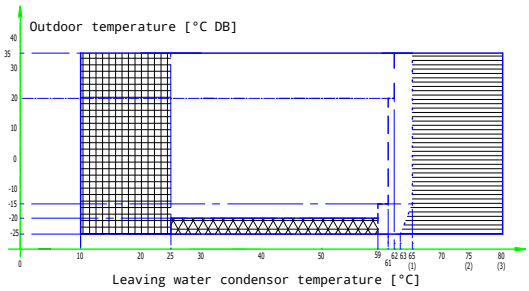
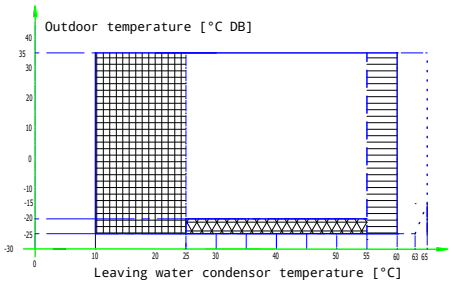
ELBH-E6V
ELBH-E9W
ELBX-E6V
ELBX-E9W
ELSH-E
ELSHB-E
ELSX-E
ELSXB-E
ELVH-E6V
ELVH-E9W
ELVX-E6V
ELVX-E9W
ELVZ-E6V
ELVZ-E9W

Domestic hot water heating mode

ELV* + ELS* + EKHWP* + EKHWS*200* / EKHWS*250* / EKHWS*300*
+
Third-party with identical specifications as ·EKHWS*200*·



EKHWS*150* / EKHWS*180*
+
Third-party with identical specifications as ·EKHWS*150*·



Legend
- Setpoint [°C] / Domestic hot water
- Leaving water temperature [°C]
- Pull-up area
- Booster heater only operation (if a booster heater is part of the system)
  (1)·ELV*12*· indoor units only
  (2) Combination of ·EKHWS*· and ·ELB*· indoor units / ·ELS*12*· indoor units only
  (3) Combination of ·EKHWP*· and ·ELB*· indoor units
- Operation of the outdoor unit is possible. If the outdoor temperature drops below ·-20·°C, unit will continue operation. But when the unit is OFF and the outdoor temperature is below ·-20·°C, the outdoor unit will not start up. The indoor unit and backup heater will start in these cases.

Notes

1.In restricted power supply mode (·EKHW*· only), the outdoor unit, booster heater and backup heater can only operate separately.
2.Third-party with identical specifications as ·EKHWS*150*·
Coil surface >·1.05·m² and <·3.7·m²
Tank thermistor and booster heater above heat pump coil.
3.Third-party with identical specifications as ·EKHWS*200*·
Coil surface >·1.8·m² and <·3.7·m²
Tank thermistor and booster heater above heat pump coil.

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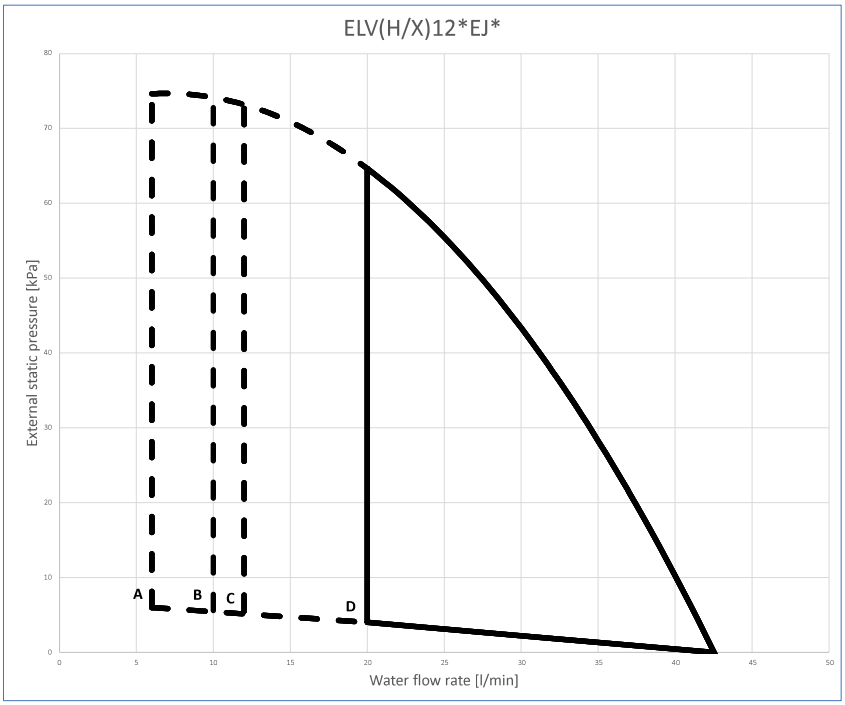
13 Hydraulic performance

13 - 1 Static Pressure Drop Unit

ELVH-E6V
ELVH-E9W
ELVX-E6V
ELVX-E9W



A= Minimum water flow rate during normal operation
B= Minimum water flow rate during cooling operation
C= Minimum water flow rate during backup heater operation
D= Minimum water flow rate during defrost operation

Notes

1. **Selecting a flow outside the operating area can damage the unit or cause the unit to malfunction. See also the minimum and maximum allowed water flow range in the technical specifications.**
2. **Water qualitiy must be according to EU directive 2020/2184.**

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