

Daikin Altherma mid temperature split

Technical Data

ETVH12E6V

ETVH12E9W

ETVX12E6V

ETVX12E9W



ETVH12S18EA6V
ETVH12S23EA6V
ETVH12S18EA9W
ETVH12S23EA9W
ETVX12S18EA6V
ETVX12S23EA6V
ETVX12S18EA9W
ETVX12S23EA9W

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ETVH12E6V / ETVH12E9W / ETVX12E6V / ETVX12E9W

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1 Features

1 - 1 ETVH12E6V, ETVH12E9W

Floor standing air to water heat pump for heating, cooling and hot water

1

- › A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- › Inclusion of all hydraulic components means no third party components are required
- › The unit's sleek design blends in with other household appliances.
- › 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



Daikin
Residential
Controller
(optional)

1 Features

1 - 2 ETVX12E6V, ETVX12E9W

Floor standing air to water heat pump for heating, cooling and hot water

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

1



Daikin
Residential
Controller
(optional)

2 Specifications

1 - 2 ETVX12E6V, ETVX12E9W

2

Technical specifications				ETVH12S18E6V		ETVH12S23E6V		
Heater capacity	Step 1		kW			2		
	Step 2		kW			2 or 4		
Power input	Nom.		kW			0.10		
Casing	Material			Precoated sheet metal				
Dimensions	Unit	Height	mm	1,650		1,850		
		Width	mm			595		
		Depth	mm			625		
	Packed unit	Height	mm	1,820		2,020		
		Width	mm			720		
		Depth	mm			740		
Weight	Unit		kg	108		117		
	Packed unit		kg	127		136		
Packing	Material			Wood / Carton / PE wrapping foil / Metal				
	Weight		kg	16				
Pump	Nr of speeds			PWM				
	Power input		W	75				
	Type			Grundfos UPM3LK 15-75 130 PWM				
Water side Heat exchanger	Water flow rate	Min.	l/min	20.0 (1)				
Expansion vessel	Volume		l	10				
	Max. water pressure		bar	3				
	Pre pressure		bar	1				
Tank	Name			Stainless steel domestic hot water tank 180 l		Stainless steel domestic hot water tank 230 L		
	Water volume		l	180		230		
	Material			Stainless steel (EN 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)	
	Corrosion protection			Pickling				
	Energy efficiency class			B				
	General	Supplier/ Name or trademark			Daikin Europe N.V.			
Manufacturer 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	1-1/4"				
Water circuit	Piping		inch	1"				
	Safety valve		bar	3				
	Manometer			Digital				
	Drain valve / fill valve			No				
	Shut off valve			Yes				
	flowswitch			Yes				
	Air purge valve			Yes				
	Total water volume		l	2.5 (3)				
	Minimum water volume in the system for cooling		l	20 (4)				
	Minimum water volume in the system for heating		l	0 (4)				
	Water circuit - Domestic hot water side	Piping material			Stainless steel			
		Piping connections	Cold water in / Hot water out	inch	G 3/4" FEMALE			
		Recirculation connection		inch	G 3/4" FEMALE			
Sound power level	Nom.		dB(A)	44.0 (5)				
Sound pressure level	Nom.		dB(A)	30.0 (6)				
Operation range	Heating	Ambient	Min.	°C	0 (7)			
			Max.	°C	0 (7)			
		Water side	Min.	°C	0 (7)			
			Max.	°C	0 (7)			
	Indoor installation	Ambient	Min.	°CDB	5			
			Max.	°CDB	35 (8)			
	Cooling	Ambient	Min.	°CDB	0 (7)			
			Max.	°CDB	0 (7)			
		Water side	Min.	°C	0 (7)			
			Max.	°C	0 (7)			
		Domestic hot water side	Min.	°C	0 (7)			
			Max.	°C	0 (7)			
Safety devices	Item	01			Thermal cut out			

2 Specifications

1 - 2 ETVX12E6V, ETVX12E9W

Electrical specifications				ETVH12S18E6V	ETVH12S23E6V	
Power supply	Name				See note 10	
	Voltage range	Min. %			10	
IP class	IP	Max. %			10	
						IP X0B
Electric heater	Power supply	Name			6V3	
		Phase			1~ / 3~	
		Frequency	Hz			50
		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 (9)	
Wiring connections	Communication cable	Quantity			3+GRD	
		Remark			1.5 mm ²	
	Electric meter	Quantity			2	
		Remark				Minimum 0.75 mm ² (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 mm ² (2A inrush, 1A continuous)
	For power supply back-up heater	Quantity			Prewired	
		Remark				
	For connection with R6T	Quantity			2	
		Remark				Minimum 0.75 mm ²
	For connection with A3P	Quantity			Depends on thermostat type, cf. installation manual	
		Remark				Voltage: 230V / Max. current: 100mA / Min. 0.75mm ²
For connection with M2S	Quantity			2		
	Remark				Voltage: 230V / Max. current: 100mA / Min. 0.75mm ²	
For connection with optional	Quantity			4		
	Remark				100 mA, minimum 0.75 mm ²	

(1) Operation area is extended to lower flow rates only in case the unit operates with heat pump only. (Not in startup, no BUH operation, no defrost operation). |

(2) Based on a dT of 45 K |

(3) Including piping + back-up heater; excluding expansion vessel |

(4) Excluding the water in the unit. This minimum water volume is sufficient for most applications. During critical processes extra water may be required. |

(5) 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°. |

(6) Value measured in an anechoic room at 1m distance from the unit. It is a relative value, depending on the distance and acoustic environment. The sound pressure level mentioned is measured with a pressure drop of 10 kPa in the heating system at an operatin |

(7) Refer to operation range of the unit. |

(8) Depends on operation mode, refer to installation manual. |

(9) 4 pole 20 A curve 400V tripping class C (refer to wiring diagram) |

(10) 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				ETVH12S18E9W	ETVH12S23E9W	
Heater capacity	Step 1	kW		3		
	Step 2	kW		max. 6 kW		
Power input	Nom.	kW		0.10		
Casing	Material	Precoated sheet metal				
Dimensions	Unit	Height	mm	1,650	1,850	
		Width	mm	595		
		Depth	mm	625		
	Packed unit	Height	mm	1,820	2,020	
		Width	mm	720		
		Depth	mm	740		
Weight	Unit	kg		108	117	
	Packed unit	kg		127	136	
Packing	Material	Wood / Carton / PE wrapping foil / Metal				
	Weight	kg		16		
Pump	Nr of speeds			PWM		
	Power input	W		75		
	Type	Grundfos UPM3LK 15-75 130 PWM				
Water side Heat exchanger	Water flow rate	Min.	l/min	20.0 (1)		
Expansion vessel	Volume	l		10		
	Max. water pressure	bar		3		
	Pre pressure	bar		1		

2 Specifications

1 - 2 ETVX12E6V, ETVX12E9W

2

Technical specifications				ETVH12S18E9W	ETVH12S23E9W	
Tank	Name			Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	
	Water volume	l		180	230	
	Material			Stainless steel (EN 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)
	Corrosion protection			Pickling		
	Energy efficiency class			B		
	General	Supplier/	Name or trademark		Daikin Europe N.V.	
Manufacturer details		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	1-1/4"		
Water circuit	Piping		inch	1"		
	Safety valve		bar	3		
	Manometer			Digital		
	Drain valve / fill valve			No		
	Shut off valve			Yes		
	flowswitch			Yes		
	Air purge valve			Yes		
	Total water volume	l		2.5 (3)		
	Minimum water volume in the system for cooling	l		20 (4)		
	Minimum water volume in the system for heating	l		0 (4)		
	Water circuit - Domestic hot water side	Piping material			Stainless steel	
		Piping connections	Cold water in / Hot water out	inch	G 3/4" FEMALE	
			Recirculation connection	inch	G 3/4" FEMALE	
Sound power level	Nom.	dB(A)	44.0 (5)			
Sound pressure level	Nom.	dB(A)	30.0 (6)			
Operation range	Heating	Ambient	Min.	°C	0 (7)	
			Max.	°C	0 (7)	
		Water side	Min.	°C	0 (7)	
			Max.	°C	0 (7)	
	Indoor installation	Ambient	Min.	°CDB	5	
			Max.	°CDB	35 (8)	
	Cooling	Ambient	Min.	°CDB	0 (7)	
			Max.	°CDB	0 (7)	
		Water side	Min.	°C	0 (7)	
			Max.	°C	0 (7)	
		Domestic hot water side	Min.	°C	0 (7)	
			Max.	°C	0 (7)	
Safety devices	Item	01	Thermal cut out			
Electrical specifications				ETVH12S18E9W	ETVH12S23E9W	
Power supply	Name			See note 10		
	Voltage range	Min.	%	10		
		Max.	%	10		
IP class	IP			IP X0B		
Electric heater	Power supply	Name		9W		
		Phase		3~		
		Frequency	Hz	50		
	Voltage		V	400		
	Current	Maximum running current		A	13.0	
		Recommended fuses		A	20.000 (9)	

2 Specifications

1 - 2 ETVX12E6V, ETVX12E9W

Electrical specifications			ETVH12S18E9W	ETVH12S23E9W
Wiring connections	Communication cable	Quantity	3+GRD	
		Remark	1.5 mm ²	
Electric meter		Quantity	2	
		Remark	Minimum 0.75 mm ² (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 mm ² (2A inrush, 1A continuous)	
For power supply back-up heater		Quantity	Prewired	
		Remark		
For connection with R6T		Quantity	2	
		Remark	Minimum 0.75 mm ²	
For connection with A3P		Quantity	Depends on thermostat type, cf. installation manual	
		Remark	Voltage: 230V / Max. current: 100mA / Min. 0.75mm ²	
For connection with M2S		Quantity	2	
		Remark	Voltage: 230V / Max. current: 100mA / Min. 0.75mm ²	
For connection with optional		Quantity	4	
		Remark	100 mA, minimum 0.75 mm ²	

(1) Operation area is extended to lower flow rates only in case the unit operates with heat pump only. (Not in startup, no BUH operation, no defrost operation). |

(2) Based on a dT of 45 K |

(3) Including piping + back-up heater; excluding expansion vessel |

(4) Excluding the water in the unit. This minimum water volume is sufficient for most applications. During critical processes extra water may be required. |

(5) 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° |

(6) Value measured in an anechoic room at 1m distance from the unit. It is a relative value, depending on the distance and acoustic environment. The sound pressure level mentioned is measured with a pressure drop of 10 kPa in the heating system at an operation |

(7) Refer to operation range of the unit. |

(8) Depends on operation mode, refer to installation manual. |

(9) 4 pole 20 A curve 400V tripping class C (refer to wiring diagram) |

(10) 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				ETVX12S18E6V	ETVX12S23E6V	
Heater capacity	Step 1	kW	2			
	Step 2	kW	2 or 4			
Power input	Nom.	kW	0.10			
	Material		Precoated sheet metal			
Dimensions	Unit	Height	1,650	1,850		
		Width		595		
		Depth		625		
	Packed unit	Height	1,820	2,020		
		Width		720		
		Depth		740		
Weight	Unit	kg	108	117		
	Packed unit	kg	127	136		
Packing	Material		Wood / Carton / PE wrapping foil / Metal			
	Weight	kg	16			
Pump	Nr of speeds		PWM			
	Power input	W	75			
	Type		Grundfos UPM3LK 15-75 130 PWM			
Water side Heat exchanger	Water flow rate	l/min	20.0 (1)			
	Expansion vessel	Volume	l	10		
Max. water pressure		bar	3			
Pre pressure		bar	1			
Tank	Name		Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L		
	Water volume	l	180	230		
	Material		Stainless steel (EN 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)	
	Corrosion protection		Pickling			
	Energy efficiency class		B			

2 Specifications

1 - 2 ETVX12E6V, ETVX12E9W

2

Technical specifications				ETVX12S18E6V	ETVX12S23E6V		
General	Supplier/	Name or trademark		Daikin Europe N.V.			
	Manu- facturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium			
3-way valve	Coeffi- cient 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	1-1/4"			
Water circuit	Piping		inch	1"			
	Safety valve		bar	3			
	Manometer			Digital			
	Drain valve / fill valve			No			
	Shut off valve			Yes			
	flowswitch			Yes			
	Air purge valve			Yes			
	Total water volume		l	2.5 (3)			
	Minimum water volume in the system for cooling		l	20 (4)			
	Minimum water volume in the system for heating		l	0 (4)			
	Water circuit - Do- mestic hot water side	Piping material			Stainless steel		
Piping		Cold water in / Hot water out	inch	G 3/4" FEMALE			
connec- tions		Recirculation connection	inch	G 3/4" FEMALE			
Sound power level	Nom.		dB(A)	44.0 (5)			
Sound pressure level	Nom.		dB(A)	30.0 (6)			
Operation range	Heating	Ambient	Min.	°C	0 (7)		
			Max.	°C	0 (7)		
		Water side	Min.	°C	0 (7)		
			Max.	°C	0 (7)		
	Indoor installa- tion	Ambient	Min.	°CDB	5		
			Max.	°CDB	35 (8)		
		Cooling	Min.	°CDB	0 (7)		
			Max.	°CDB	0 (7)		
	Domestic hot water side	Water	Min.	°C	0 (7)		
			Max.	°C	0 (7)		
		Water	Min.	°C	0 (7)		
			Max.	°C	0 (7)		
Safety devices	Item	01		Thermal cut out			
Electrical specifications				ETVX12S18E6V	ETVX12S23E6V		
Power supply	Name			See note 10			
	Voltage range	Min.	%	10			
		Max.	%	10			
IP class	IP			IP X0B			
Electric heater	Power supply	Name			6V3		
		Phase			1~ / 3~		
		Frequency	Hz			50	
		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 (9)		

2 Specifications

1 - 2 ETVX12E6V, ETVX12E9W

Electrical specifications			ETVX12S18E6V	ETVX12S23E6V
Wiring connections	Communication cable	Quantity	3+GRD	
		Remark	1.5 mm ²	
Electric meter		Quantity	2	
		Remark	Minimum 0.75 mm ² (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 mm ² (2A inrush, 1A continuous)	
For power supply back-up heater		Quantity	Prewired	
		Remark		
For connection with R6T		Quantity	2	
		Remark	Minimum 0.75 mm ²	
For connection with A3P		Quantity	Depends on thermostat type, cf. installation manual	
		Remark	Voltage: 230V / Max. current: 100mA / Min. 0.75mm ²	
For connection with M2S		Quantity	2	
		Remark	Voltage: 230V / Max. current: 100mA / Min. 0.75mm ²	
For connection with optional		Quantity	4	
		Remark	100 mA, minimum 0.75 mm ²	

(1) Operation area is extended to lower flow rates only in case the unit operates with heat pump only. (Not in startup, no BUH operation, no defrost operation). |

(2) Based on a dT of 45 K |

(3) Including piping + back-up heater; excluding expansion vessel |

(4) Excluding the water in the unit. This minimum water volume is sufficient for most applications. During critical processes extra water may be required. |

(5) 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° |

(6) Value measured in an anechoic room at 1m distance from the unit. It is a relative value, depending on the distance and acoustic environment. The sound pressure level mentioned is measured with a pressure drop of 10 kPa in the heating system at an operation |

(7) Refer to operation range of the unit. |

(8) Depends on operation mode, refer to installation manual. |

(9) 4 pole 20 A curve 400V tripping class C (refer to wiring diagram) |

(10) 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				ETVX12S18E9W	ETVX12S23E9W	
Heater capacity	Step 1	kW	3			
	Step 2	kW	max. 6 kW			
Power input	Nom.	kW	0.10			
Casing	Material	Precoated sheet metal				
Dimensions	Unit	Height	1,650	1,850		
		Width	595			
		Depth	625			
	Packed unit	Height	1,820	2,020		
		Width	720			
	Depth	740				
Weight	Unit	kg	108	117		
	Packed unit	kg	127	136		
Packing	Material	Wood / Carton / PE wrapping foil / Metal				
	Weight	kg	16			
Pump	Nr of speeds	PWM				
	Power input	W	75			
	Type	Grundfos UPM3LK 15-75 130 PWM				
Water side Heat exchanger	Water flow rate	Min.	20.0 (1)			
Expansion vessel	Volume	l	10			
	Max. water pressure	bar	3			
	Pre pressure	bar	1			
Tank	Name	Stainless steel domestic hot water tank 180 l		Stainless steel domestic hot water tank 230 L		
	Water volume	l	180	230		
	Material	Stainless steel (EN 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)	
	Corrosion protection	Pickling				
Energy efficiency class	B					

2 Specifications

1 - 2 ETVX12E6V, ETVX12E9W

2

Technical specifications				ETVX12S18E9W	ETVX12S23E9W
General	Supplier/	Name or trademark		Daikin Europe N.V.	
	Manu- facturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium	
3-way valve	Coeffi- cient 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	1-1/4"	
Water circuit	Piping		inch	1"	
	Safety valve		bar	3	
	Manometer			Digital	
	Drain valve / fill valve			No	
	Shut off valve			Yes	
	flowswitch			Yes	
	Air purge valve			Yes	
	Total water volume		l	2.5 (3)	
	Minimum water volume in the system for cooling		l	20 (4)	
	Minimum water volume in the system for heating		l	0 (4)	
	Water circuit - Do- mestic hot water side	Piping material			Stainless steel
Piping connec- tions		Cold water in / Hot water out	inch	G 3/4" FEMALE	
		Recirculation connection	inch	G 3/4" FEMALE	
Sound power level	Nom.		dB(A)	44.0 (5)	
Sound pressure level	Nom.		dB(A)	30.0 (6)	
Operation range	Heating	Ambient	Min.	°C	0 (7)
			Max.	°C	0 (7)
		Water side	Min.	°C	0 (7)
			Max.	°C	0 (7)
	Indoor installa- tion	Ambient	Min.	°CDB	5
			Max.	°CDB	35 (8)
		Cooling	Min.	°CDB	0 (7)
			Max.	°CDB	0 (7)
	Domestic hot water side	Water	Min.	°C	0 (7)
			Max.	°C	0 (7)
		Water	Min.	°C	0 (7)
			Max.	°C	0 (7)
	Safety devices	Item	01		Thermal cut out
Electrical specifications				ETVX12S18E9W	ETVX12S23E9W
Power supply	Name			See note 10	
	Voltage range	Min.	%	10	
		Max.	%	10	
IP class	IP			IP X0B	
Electric heater	Power supply	Name			9W
		Phase			3~
		Frequency	Hz	50	
	Current	Voltage	V	400	
		Maximum running current	A	13.0	
		Recommended fuses	A	20.000 (9)	

2 Specifications

1 - 2 ETVX12E6V, ETVX12E9W

Electrical specifications			ETVX12S18E9W	ETVX12S23E9W
Wiring connections	Communication cable	Quantity	3+GRD	
		Remark	1.5 mm ²	
	Electric meter	Quantity	2	
		Remark	Minimum 0.75 mm ² (5VDC pulse detection)	
	Preferential 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 mm ² (2A inrush, 1A continuous)	
	For power supply back-up heater	Quantity	Prewired	
	For connection with R6T	Quantity	2	
		Remark	Minimum 0.75 mm ²	
	For connection with A3P	Quantity	Depends on thermostat type, cf. installation manual	
		Remark	Voltage: 230V / Max. current: 100mA / Min. 0.75mm ²	
	For connection with M2S	Quantity	2	
		Remark	Voltage: 230V / Max. current: 100mA / Min. 0.75mm ²	
	For connection with optional	Quantity	4	
		Remark	100 mA, minimum 0.75 mm ²	

(1) Operation area is extended to lower flow rates only in case the unit operates with heat pump only. (Not in startup, no BUH operation, no defrost operation). |

(2) Based on a dT of 45 K |

(3) Including piping + back-up heater; excluding expansion vessel |

(4) Excluding the water in the unit. This minimum water volume is sufficient for most applications. During critical processes extra water may be required. |

(5) 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° |

(6) Value measured in an anechoic room at 1m distance from the unit. It is a relative value, depending on the distance and acoustic environment. The sound pressure level mentioned is measured with a pressure drop of 10 kPa in the heating system at an operation |

(7) Refer to operation range of the unit. |

(8) Depends on operation mode, refer to installation manual. |

(9) 4 pole 20 A curve 400V tripping class C (refer to wiring diagram) |

(10) 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

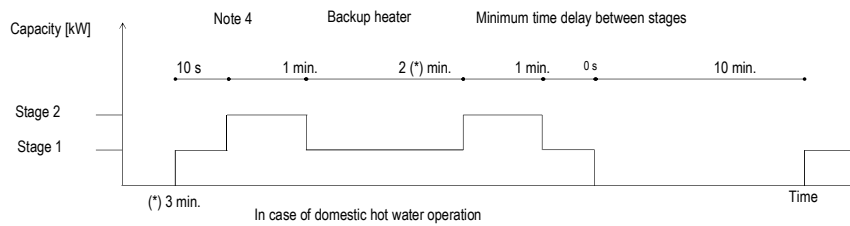
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ETVH12E6V / ETVH16E6V / ETVH12UE6V / ETVH16UE6V / ETVH12E9W / ETVH16E9W
 ETVX12E6V / ETVX16E6V / ETVX12E9W / ETVX16E9W
 ETVZ12E6V / ETVZ16E6V / ETVZ12E9W / ETVZ16E9W

Electrical specifications

Type	6V						9W								
	2 - 4		2 - 6		4 - 6		2-4 (in case of emergency: 2-6)		6		3 - 6		3 - 9		3 - 6 (in case of emergency: 3-9)
Capacity setting	[kW]														
Capacity stage	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2
Capacity stage 1	2	2	2	2	2	2	2	2	6	3	3	3	3	3	3
Capacity stage 2	4	6	4	4	4	4	4	6	-	6	9	6	9	6	9
Backup heater	Minimum time delay between stages														
	Note 4														
	Power supply (1)														
	Phase														
	Frequency														
	Voltage														
Nominal running current															
Zmax (backup heater)(2)															
Minimum Ssc value															

Notes	Details
(1)	The above-mentioned power supply of the hydrobox is for the backup heater only.
(2)	Booster heater power supply 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



4D121000A

3 Electrical data

3 - 1 Electrical Data

ETBH12E6V / ETBH12E9W / ETBX12E6V / ETBX12E9W
 ETVH12E6V / ETVH12UE6V / ETVH12E9W / ETVX12E6V
 ETVX12E9W / ETVZ12E6V / ETVZ12E9W

* 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·
 - Minimum OFF time: ·100ms·
- Measurement type (depending on installation)
 - Single-phase AC meter
 - Three-phase AC meter
 - Balanced loads
 - 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		EPRA(08/10/12)EA*					
Indoor unit type		ETB(H/X)12EF*			ETV(H/X/Z)12S(U)*EA*		
	Backup heater type	6V		9W	6V		9W
	Backup heater power supply	1~ 230V	3~ 230V	3~ 400V	1~ 230V	3~ 230V	3~ 400V
	Backup heater configuration	2 / 4 / 6 kW	6 kW	3 / 6 / 9 kW	2 / 4 / 6 kW	6 kW	3 / 6 / 9 kW
Normal kWh rate power supply							
Electrical meter type	1~	1	-	-	1	-	-
	3~ balanced	-	-	-	-	-	-
	3~ unbalanced	-	1	1	-	1	1
Preferential kWh rate power supply							
Electrical meter type	1~	2	1	1	2	1	1
	3~ balanced	-	-	-	-	-	-
	3~ unbalanced	-	1	1	-	1	1

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4 Combination table

4 - 1 Combination Table

4

ETVH12E6V / ETVH16E6V / ETVH12UE6V / ETVH16UE6V / ETVH12E9W / ETVH16E9W
 ETVX12E6V / ETVX16E6V / ETVX12E9W / ETVX16E9W
 ETVZ12E6V / ETVZ16E6V / ETVZ12E9W / ETVZ16E9W

Factory-mounted equipment for -ETV(H/X/Z)12S*EA*

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

Outdoor combination table for -ETV(H/X/Z)12S(18/23)EA-

		EPR08EA(V3/W1)	EPR10EA(V3/W1)	EPR12EA(V3/W1)
ETVH12S(18/23)EA*	Heating only indoor unit	o	o	o
ETVX12S(18/23)EA*	Reversible indoor unit	o	o	o
ETVZ12S(18/23)EA*	(Integrated Bizone)	o	o	o
ETVH12SU(18/23)EA*	Heating only indoor unit for the UK	o	o	o

Kit availability for indoor units

Reference	Description	ETV*12S*EA*					
		18 - 6V	18 - 9W	23 - 6V	23 - 9W	18 - 6V	23 - 6V
ETVH*	Heating only indoor unit	o	o	o	o		
ETVX*	Reversible indoor unit	o	o	o	o		
ETVZ*	(Integrated Bizone)	o	o	o	o		
ETVH12SU*	Heating only indoor unit for the UK	o	o	o	o		
EKRP1HBAA	Digital I/O PCB	*(1)	o	o	o	o	o
EKRP1AHTA	Demand PCB	*(3)	o	o	o	o	o
BRCHHDA*	HCI (Human Comfort Interface)	o	o	o	o	o	o
EKPCAB4	PC cable	*(4)	o	o	o	o	o
KRCS01-1	Remote indoor sensor	*(5)	o	o	o	o	o
EKRSCA1	Remote sensor for outdoor	*(5)	o	o	o	o	o
EKCC8-W	Universal centralised user interface	o	o	o	o	o	o
DCOM-LT/JO	DCOM gateway	o	o	o	o	o	o
DCOM-LT/MB	DCOM gateway	o	o	o	o	o	o
EKCC8-W	Cascade control	o	o	o	o	o	o
EKHVCNV4	Conversion kit: heating only to reversible.	o	o	o	o	o	o
FWXV10-15-20ATV3	Heat pump convactor	*(6)	o	o	o	o	o
FWXT10-15-20ATV3	Heat pump convactor	*(6)	o	o	o	o	o
FWXM10-15-20ATV3	Heat pump convactor	*(6)	o	o	o	o	o
EKVHPC	Heat pump convactor valve kit	o	o	o	o	o	o
EKRTR1A	Wired room thermostat	o	o	o	o	o	o
EKRTR1	Wireless room thermostat	o	o	o	o	o	o
EKRTE5	External sensor room thermostat	*(7)	o	o	o	o	o
EKWUFHTA1V3	Multi-zoning base unit 230 V	*(9)	o	o	o	o	o
EKWCTRD1V3	Digital thermostat 230 V	*(9)	o	o	o	o	o
EKWCTRAN1V3	Analogue thermostat 230 V	*(9)	o	o	o	o	o
EKWCVATR1V3	Actuator 230 V	*(9)	o	o	o	o	o
EKRELSG	Relay for Smart Grid	o	o	o	o	o	o
BRP066A71	WLAN module	*(10)	o	o	o	o	o
EKHJWG3D	45A kit	*(11)	o	o	o	o	o
AFVALVE1	Freeze protection valve	o	o	o	o	o	o
ESAE04A01*	Daikin Residential Controller	o	o	o	o	o	o

Kit availability for outdoor units

Reference	Description	EPR08EA(V3/W1)	EPR10EA(V3/W1)	EPR12EA(V3/W1)
EKMST1	Mounting stand	o	o	o
EKMST2	Mounting stand	o	o	o

Reference	Description		
		ETVH*	ETVX*
	Only applicable for -ETVH* & ETVX*- models		
EKMIKPOA	Mixing kit - PCB only	o	o
EKMIKPHA	Mixing kit - PCB with hydraulics	o	o
EKMIKHMA	Hydraulics - mixed pump group	*(12)	o
EKMIKHUA	Hydraulics - unmixed pump group	*(12)	o
EKMIKBVA	Balancing vessel	o	o
EKMIKDIA	Distributor for balancing vessel	*(13)	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 convactor is installed on a reversible model (not mandatory for heating only models).
- (7) -EKRTETS- can only be used in combination with -EKRTR1-
- (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 module.
- (11) This kit is mandatory for the UK models.
- (12) Only possible in combination with -EKMIKPOA-
- (13) Only possible in combination with -EKMIKBVA- and -EKMIKPHA- or -EKMIKHUA-
- (14) Only possible in combination with -HBKIT*-
- (15) Only possible in combination with -ETVZ*-

Remark

Other combinations than mentioned in this combination table are prohibited.

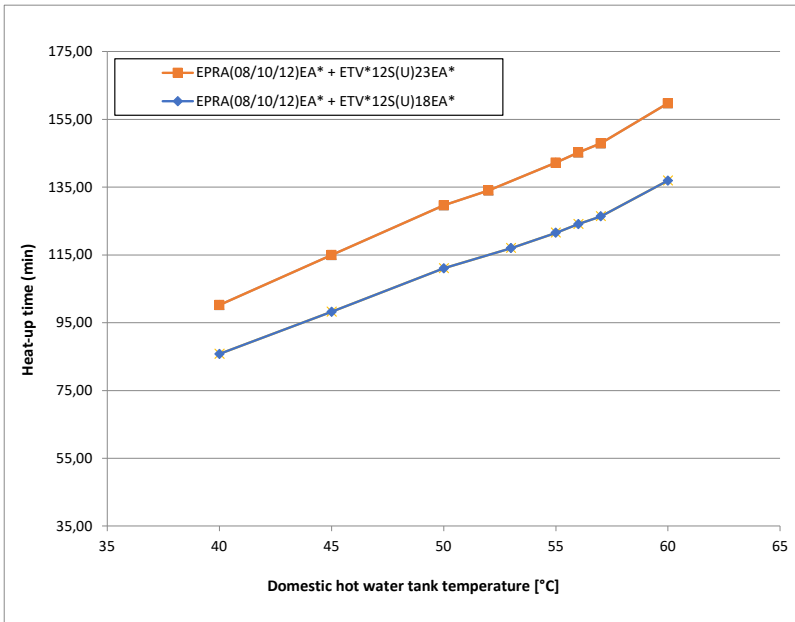
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5 Capacity tables

5 - 1 Domestic Hot Water performance

ETBH12E6V / ETBH12E9W
 ETBX12E6V / ETBX12E9W
 ETVH12E6V / ETVH12UE6V
 ETVH12E9W / ETVX12E6V
 ETVX12E9W / ETVZ12E6V
 ETVZ12E9W

Heat-up times



Notes

- 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 45°C
EPRA(08/10/12)EA* + ETV*12S(U)18EA*	~98 min.
EPRA(08/10/12)EA* + ETV*12S(U)23EA*	~115 min.

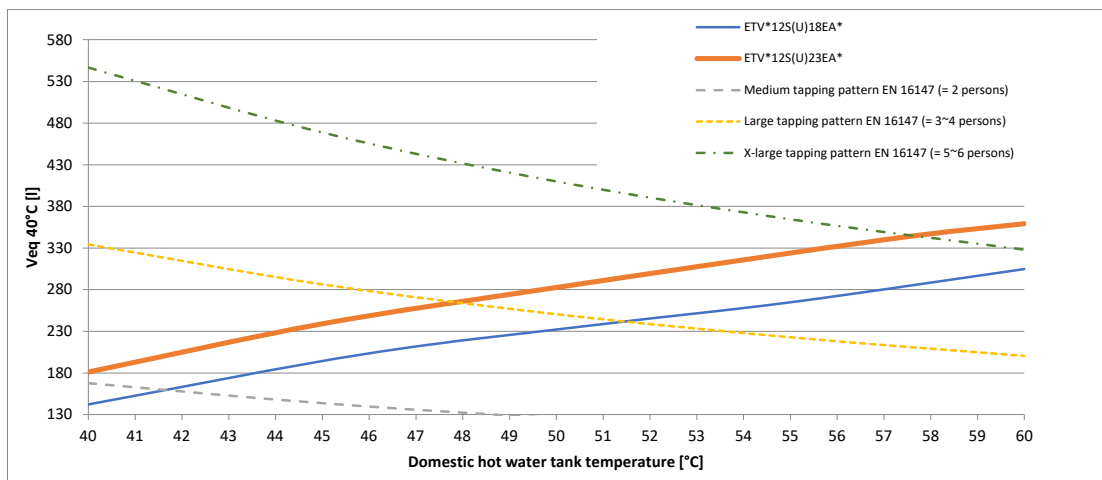
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ETBH12E6V / ETBH12E9W / ETBX12E6V / ETBX12E9W
 ETVH12E6V / ETVH12UE6V / ETVH12E9W / ETVX12E6V
 ETVX12E9W / ETVZ12E6V / ETVZ12E9W

Selection guide for the domestic hot water tank volume

(1)

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.

Notes

- According to EN16147.

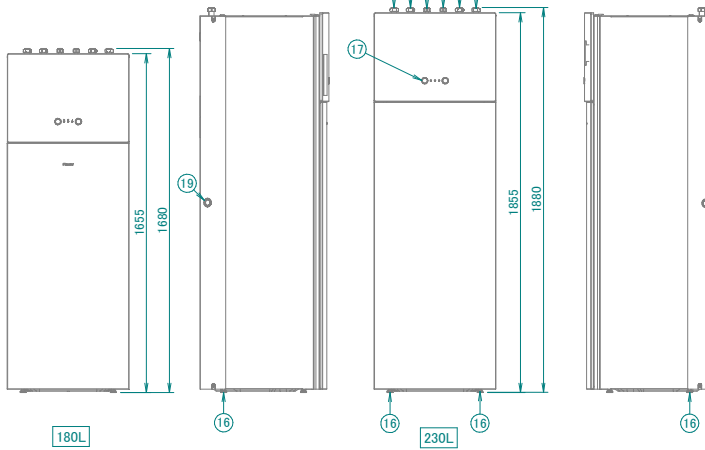
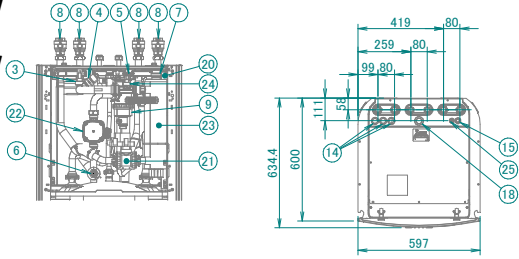
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6 Dimensional drawings

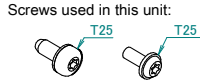
6 - 1 Dimensional Drawings

6

ETVH12E6V
ETVH12E9W
ETVX12E6V
ETVX12E9W



- ① Water out connection ·1"· To outdoor unit
- ② Water in connection ·1"·
- ③ Flow switch
- ④ Space heating water pressure sensor
- ⑤ Safety valve
- ⑥ Drain valve water circuit
- ⑦ Air purge
- ⑧ Shut-off valve
- ⑨ Magnetic filter / dirt separator
- ⑩ Water in connection ·1" F BSP·
- ⑪ Water out connection ·1" F BSP·
- ⑫ Domestic hot water: cold water in ·3/4" F BSP·
- ⑬ Domestic hot water: hot water out ·3/4" F BSP·
- ⑭ High voltage wiring intake ·Ø 24mm·
- ⑮ Low voltage wiring intake ·Ø 15mm·
- ⑯ Levelling feet
- ⑰ User interface
- ⑱ Recirculation connection ·G 3/4"· (female)
- ⑲ Drain outlet (unit + safety valve)
- ⑳ Expansion vessel
- ㉑ 3-way valve
- ㉒ Pump
- ㉓ Backup heater
- ㉔ Flow sensor
- ㉕ Low voltage wiring intake (options)

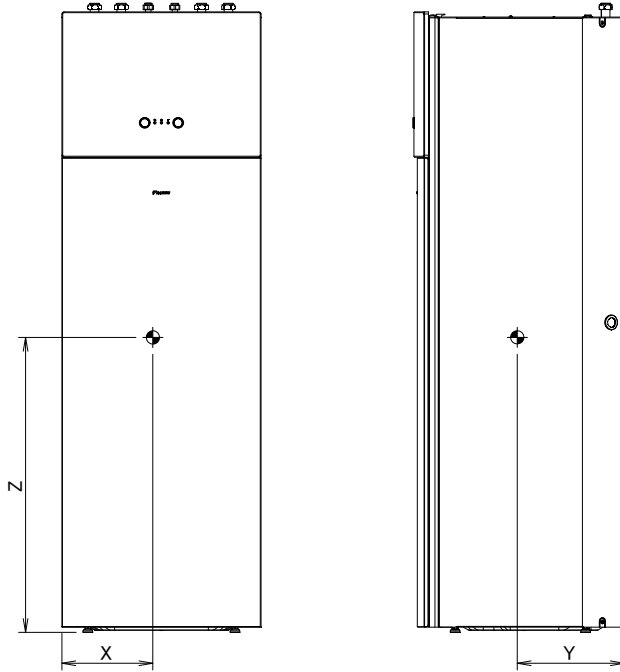


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7 Centre of gravity

7 - 1 Centre of Gravity

ETVH12E6V / ETVH16E6V / ETVH12UE6V / ETVH16UE6V / ETVH12E9W / ETVH16E9W
 ETVX12E6V / ETVX16E6V / ETVX12E9W / ETVX16E9W
 ETVZ12E6V / ETVZ16E6V / ETVZ12E9W / ETVZ16E9W



MODEL	X	Y	Z
EAV (H/X) 16S18*	327	329	890
EAV (H/X) 16S23*	327	329	1015
EAVZ16S18*	311	315	903
EAVZ16S23*	311	315	1028
ETV (H/X) 16S18*	327	329	890
ETV (H/X) 16S23*	327	329	1015
ETVZ16S18*	311	315	903
ETVZ16S23*	311	315	1028
ETV (H/X) 12S18*	327	329	890
ETV (H/X) 12S23*	327	329	1015
ETVZ12S18*	311	315	903
ETVZ12S23*	311	315	1028
ETVH12SU18*	327	329	890
ETVH12SU23*	327	329	1015
ETVH16SU18*	327	329	890
ETVH16SU23*	327	329	1015

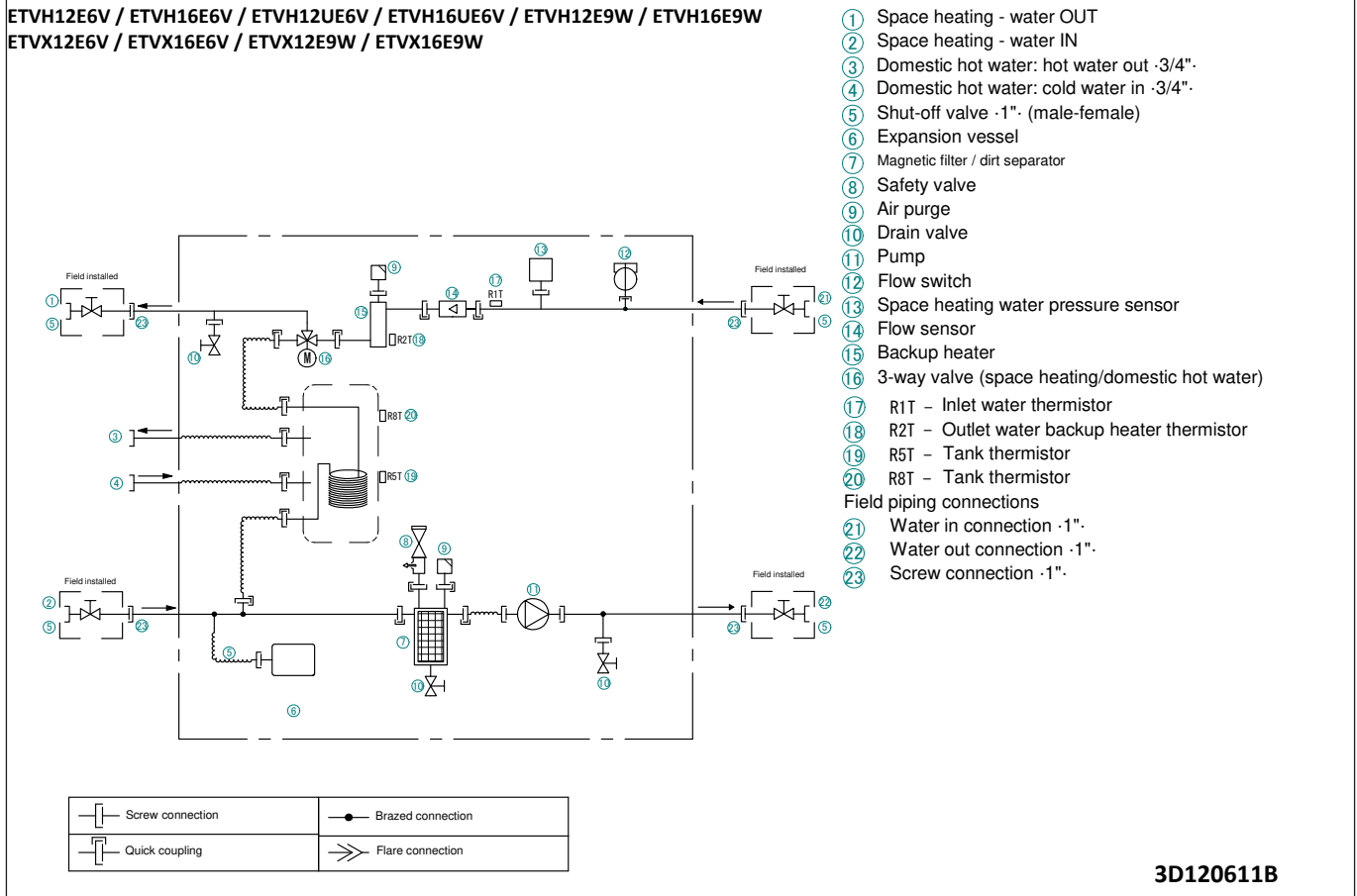
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8 Piping diagrams

8 - 1 Piping Diagrams

8

ETVH12E6V / ETVH16E6V / ETVH12UE6V / ETVH16UE6V / ETVH12E9W / ETVH16E9W
 ETVX12E6V / ETVX16E6V / ETVX12E9W / ETVX16E9W



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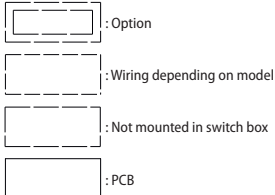
9 Wiring diagrams

9 - 1 Notes & Legend

ETVH12E6V / ETVH12UE6V / ETVH12E9W / ETVX12E6V / ETVX12E9W

NOTES to go through before starting the unit

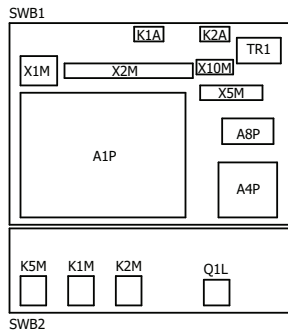
- X1M : Main terminal
- X2M : Field wiring terminal for AC
- X5M : Field wiring terminal for DC
- X6M : BUH Power supply terminal
- X10M : Smartgrid terminal
- : Earth wiring
- : Field supply
- ① : Several wiring possibilities



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:
 - Remote user interface
 - Ext. indoor thermistor
 - Ext. outdoor thermistor
 - Digital I/O PCB
 - Demand PCB
 - Safety thermostat
 - Smartgrid kit
 - WLAN adapter module
 - WLAN cartridge
 - Bizon mixing kit
- Main LWT:
 - ON/OFF thermostat (wired)
 - ON/OFF thermostat (wireless)
 - Ext. thermistor
 - Heat pump convactor
- Add LWT:
 - ON/OFF thermostat (wired)
 - ON/OFF thermostat (wireless)
 - Ext. thermistor
 - Heat pump convactor

POSITION IN SWITCH BOX



LEGEND

Part n°	Description
A1P	main PCB
A2P	* ON/OFF thermostat (PC=power circuit)
A3P	* heat pump convactor
A4P	* digital I/O PCB
A8P	* demand PCB
A9P	status indicator
A11P	MMI main PCB
A14P	* user interface PCB
A15P	* receiver PCB (wireless ON/OFF thermostat)
A20P	* WLAN adapter module
A30P	* Bizon mixing kit PCB
B2L	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 (A*P)	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

Part n°	Description
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)
R5T, R8T	domestic hot water thermistor
R6T	* external indoor or outdoor ambient thermistor
S1L	flow switch
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 (A12P)	turn buttons
SW3~5 (A12P)	push button
TR1	power supply transformer
X6M	# BUH power supply terminal strip
X10M	* smartgrid power supply terminal strip
X*, X*A, J* X*H*, X*Y	connector
X*M	terminal strip

* : optional # : field supply

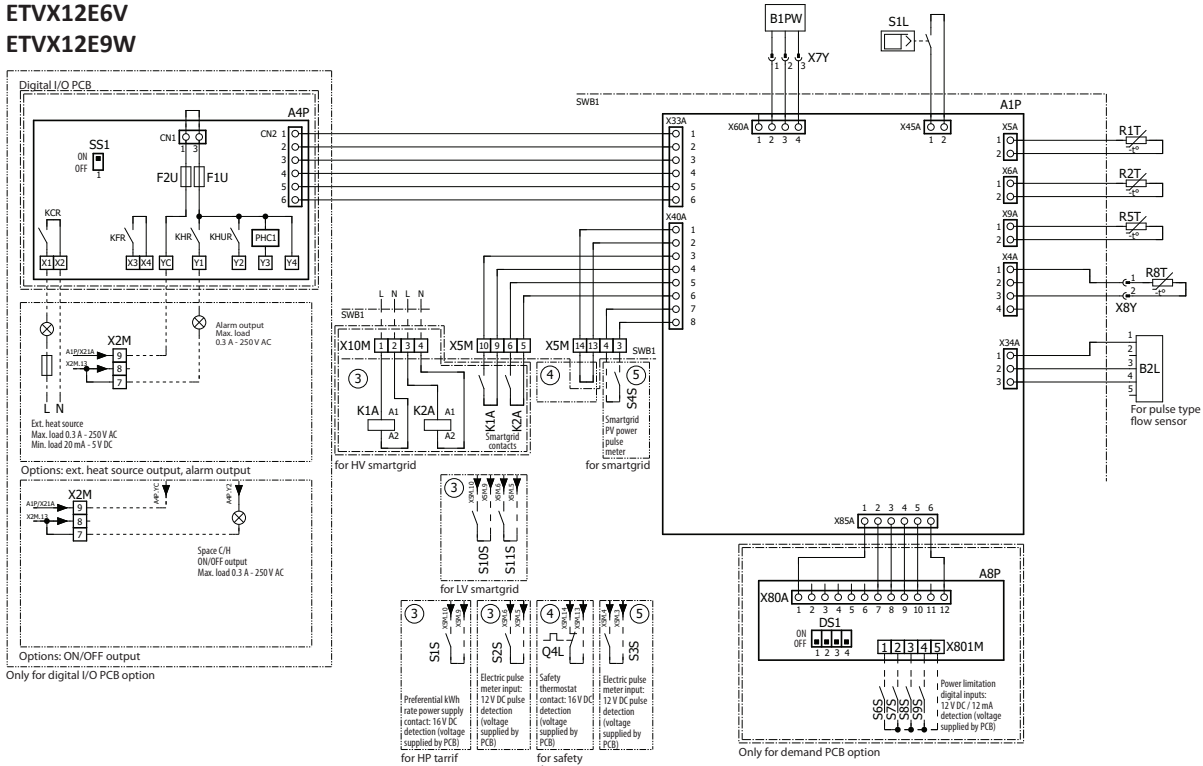
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9 Wiring diagrams

9 - 2 Control Circuit

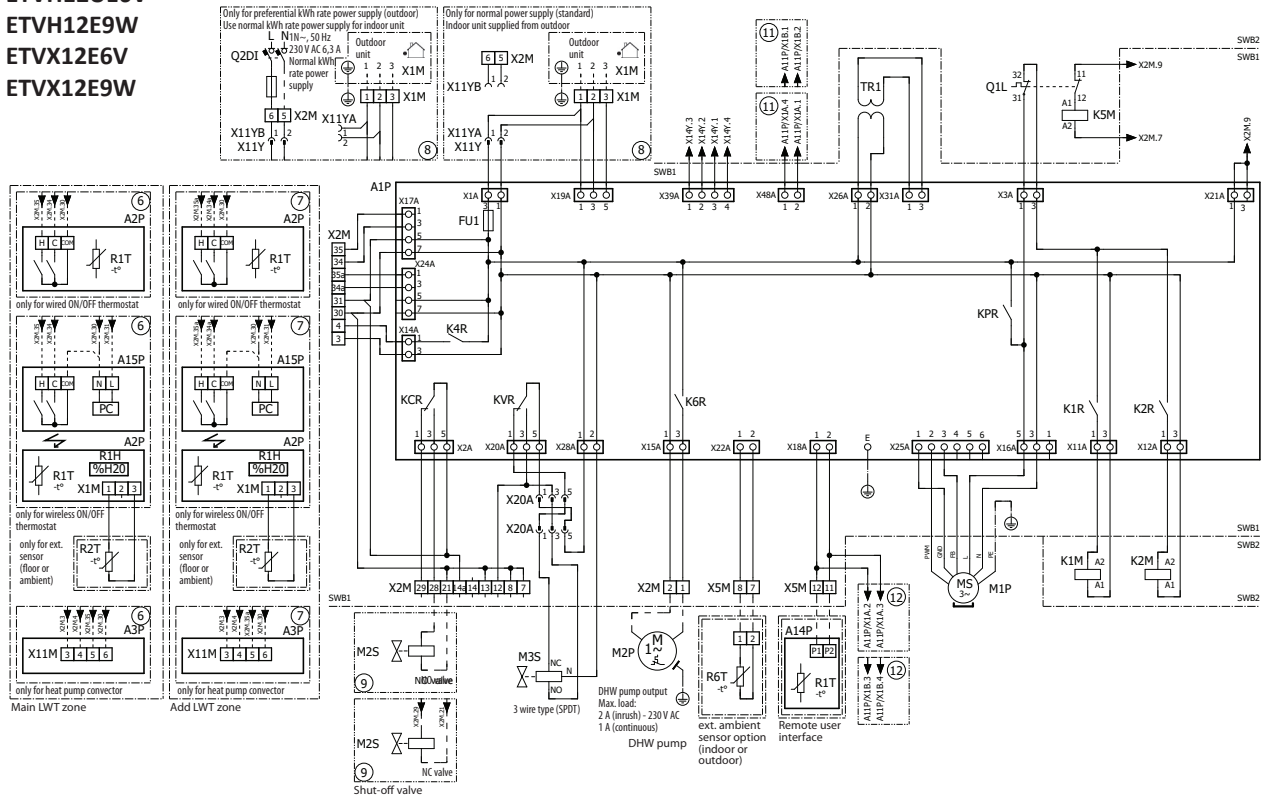
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ETVH12E6V
ETVH12UE6V
ETVH12E9W
ETVX12E6V
ETVX12E9W



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ETVH12E6V
ETVH12UE6V
ETVH12E9W
ETVX12E6V
ETVX12E9W

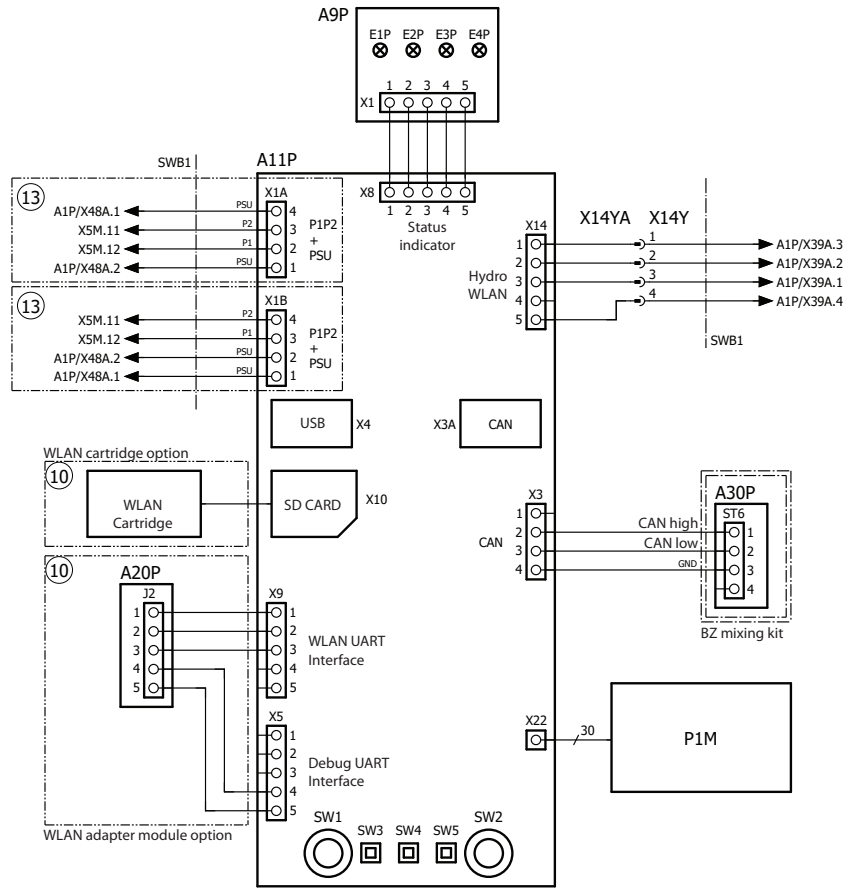


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9 Wiring diagrams

9 - 2 Control Circuit

ETVH12E6V
 ETVH12UE6V
 ETVH12E9W
 ETVX12E6V
 ETVX12E9W



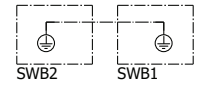
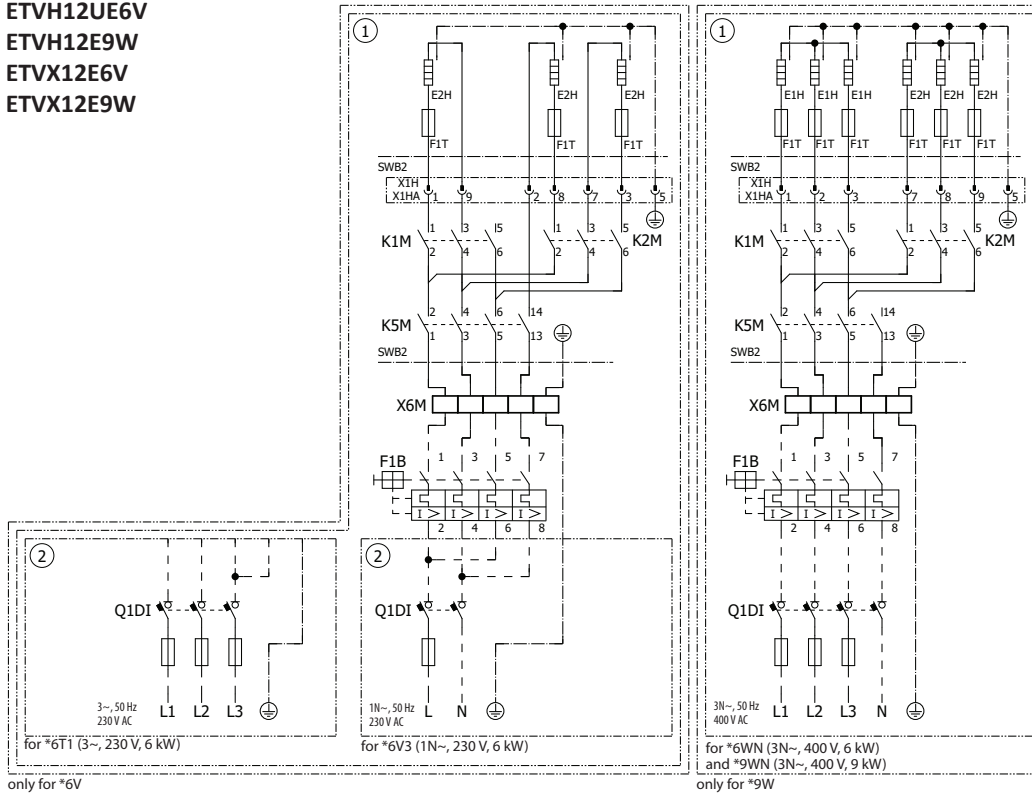
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9 Wiring diagrams

9 - 3 Power Supply, Back-up Heater

9

ETVH12E6V
ETVH12UE6V
ETVH12E9W
ETVX12E6V
ETVX12E9W



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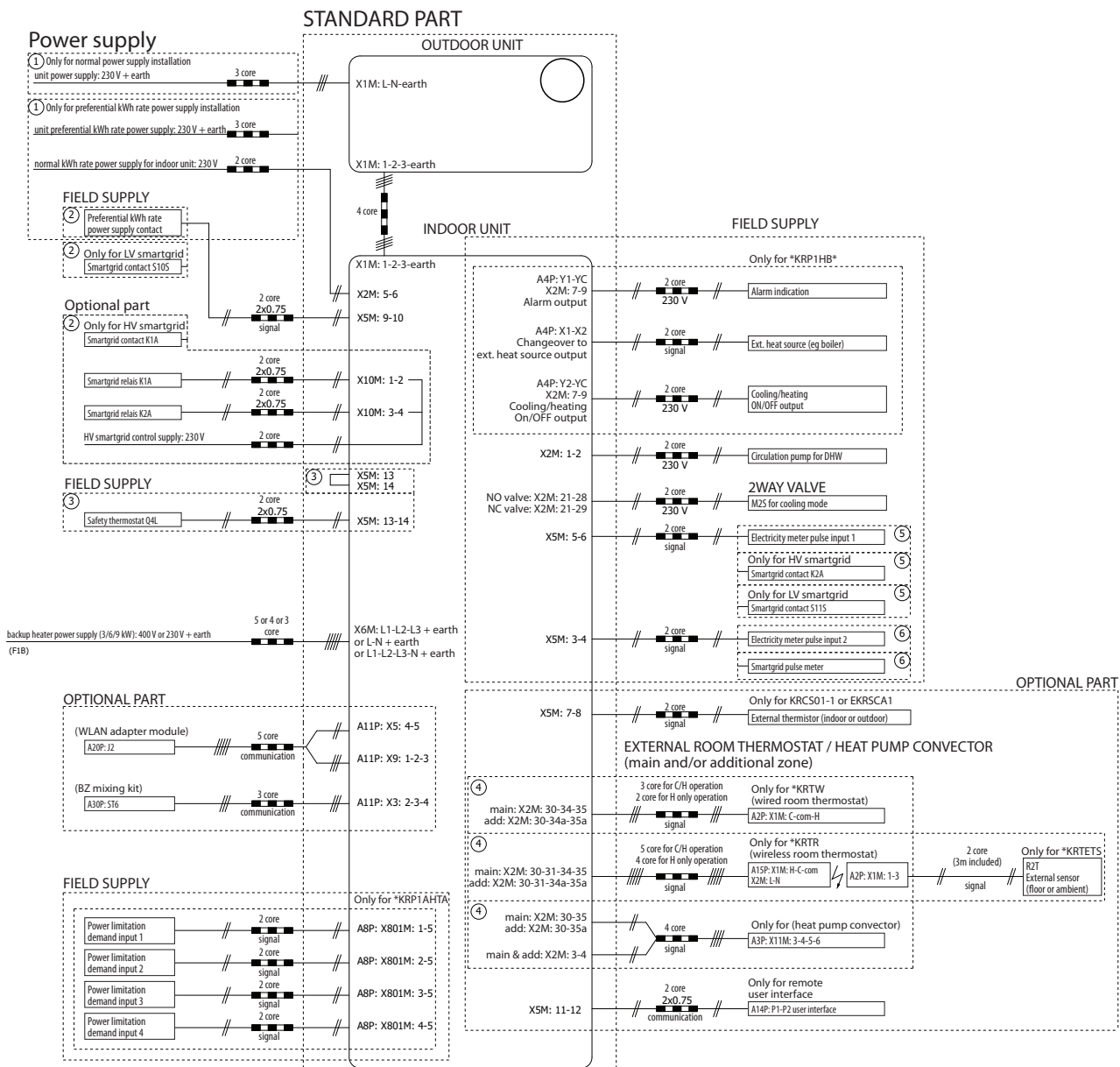
10 External connection diagrams

10 - 1 External Connection Diagrams

ETVH12E6V
 ETVH12UE6V
 ETVH12E9W
 ETVX12E6V
 ETVX12E9W

Electrical connection diagram Altherma Top Grade Small Floorstanding

For more details please check unit wiring



NOTE

- In case of signal cable: keep minimum distance to power cables > 5 cm

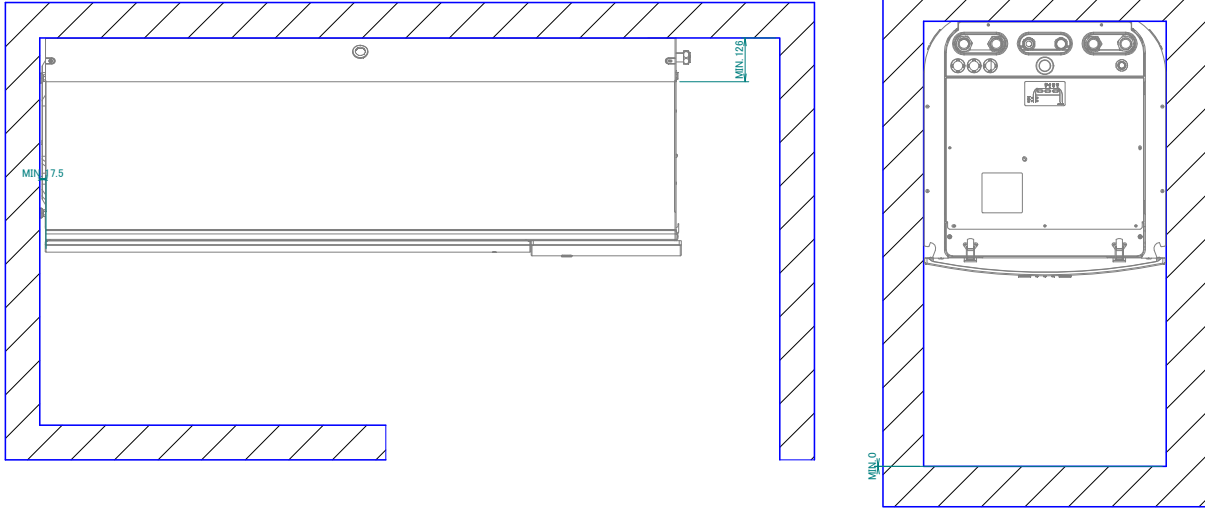
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11 Installation

11 - 1 Installation Method

11

ETVH12E6V / ETVH16E6V
ETVH12E9W / ETVH16E9W
ETVX12E6V / ETVX16E6V
ETVX12E9W / ETVX16E9W

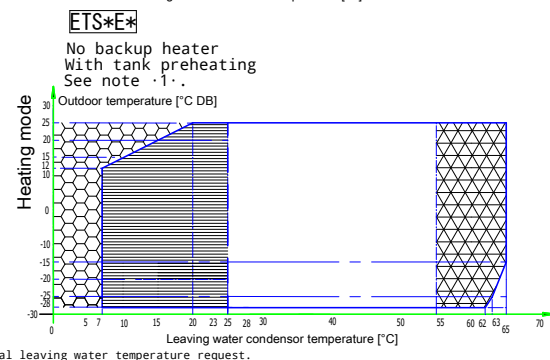
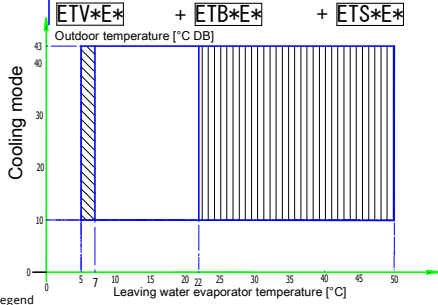
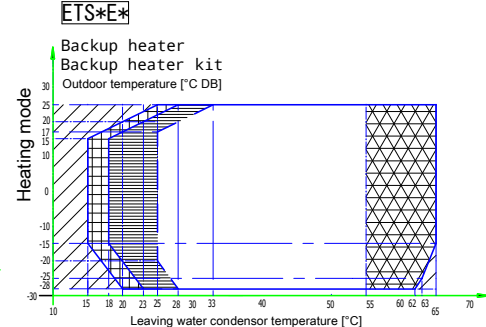
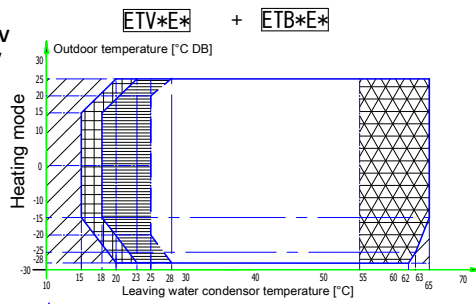


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12 Operation range

12 - 1 Operation Range

ETBH12E6V / ETBH12E9W
 ETBX12E6V / ETBX12E9W
 ETVH12E6V / ETVH12UE6V
 ETVH12E9W / ETVX12E6V
 ETVX12E9W / ETVZ12E6V
 ETVZ12E9W



- Legend
- Backup heater only operation
 - No outdoor unit operation
 - Heat pump + backup heater operation
 - Pull-up area
 - Outdoor unit operation if controller setpoint is regulated to minimal leaving water temperature request. See dashed lines
 - Circulation pump operation only
 - Outdoor unit operation if setpoint > 55°C and ΔT = -10°C (ΔT = outlet temperature - inlet temperature)
 - Pull-down area
 - In case valve kit -AFVALVE1- is part of the system, then the minimum setpoint is -7°C.

- Notes
1. Tank preheating
For details, see the installer reference guide.
 2. If negative ambient temperatures are expected, both in operation or at standstill, take adequate countermeasures against freezing.
For more information, refer to the installation manual.
 3. In restricted power supply mode, the outdoor unit and backup heater can only operate separately.

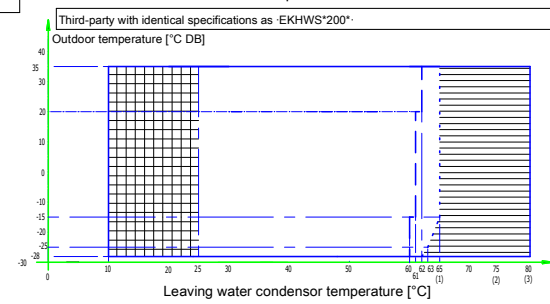
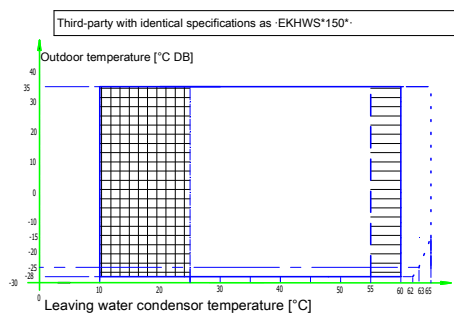
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ETBH12E6V / ETBH12E9W
 ETBX12E6V / ETBX12E9W
 ETVH12E6V / ETVH12UE6V
 ETVH12E9W / ETVX12E6V
 ETVX12E9W / ETVZ12E6V
 ETVZ12E9W

Domestic hot water heating mode

EKHWS*150*
 EKHWS*180*
 +

ETV* + EKHWP* + ETS* +
 EKHWS*200*
 EKHWS*250*
 EKHWS*300*



- 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) ETV*12*E* indoor units only
 (2) Combination of EKHWS* and ETV*12*E* indoor units
 (3) Combination of EKHWP* and ETV*12*E* indoor units

/ETS*12*E* indoor units only

- 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. If negative ambient temperatures are expected, both in operation or at standstill, take adequate countermeasures against freezing.
For more information, refer to the installation manual.
 4. 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.

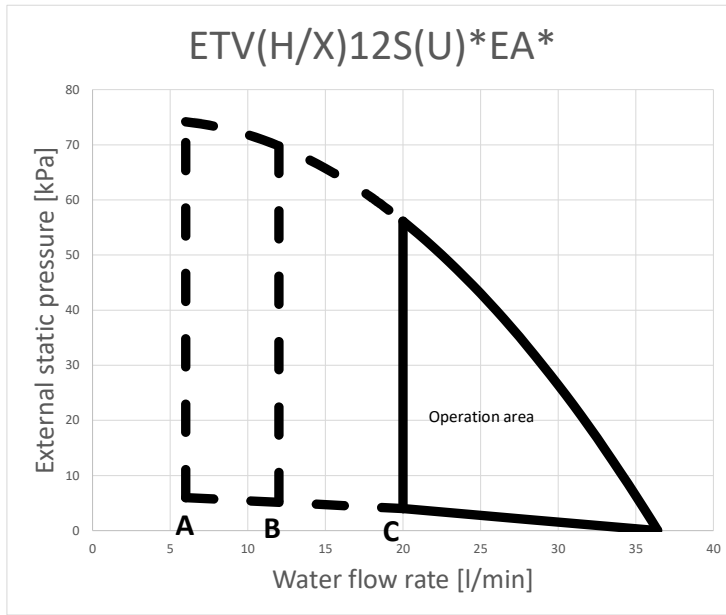
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13 Hydraulic performance

13 - 1 Static Pressure Drop Unit

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ETVH12E6V
 ETVH12UE6V
 ETVH12E9W
 ETVX12E6V
 ETVX12E9W



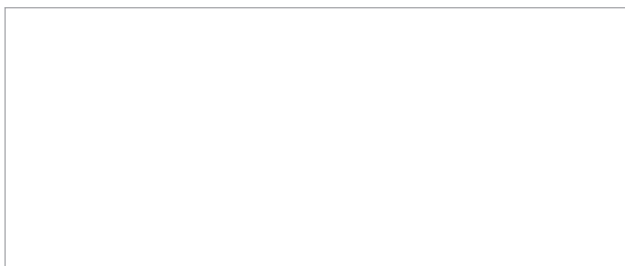
- A Minimum water flow rate during normal operation
- B Minimum water flow rate during backup heater operation
- C Minimum water flow rate during defrost operation

Operation area is extended to lower flow rates only in case the unit operates with heat pump only.
 See dashed lines

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 quality must be according to EU directive 98/83 EC.

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10/2021



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