TABLE OF CONTENTS

FWXV-A

1 Features

- Optimal energy efficiency when connected to a Daikin Altherma system, thanks to the interlink function
- Stylish design
- Flat front panel: its stylish appearance blends easily within any interior décor and is more easy to clean.
- Titanium apatite photocatalytic air purification filter
- Can be installed against a wall or recessed
- Lightweight but sturdy design


5 steps


standard






2 Specifications

2-1 For indoor units only				FWXV15AVEB	FWXV20AVEB
Nominal input (Indoor only)	Cooling		kW	0.013	0.015
	Heating		kW	0.013	0.015
Heating capacity	Total capacity	Nom.	kW	1.5	2.0
	Water volume	Nom.	m^3/hr	0.26	0.34
			l/min	4.3	5.7
	Water pressure drop	Nom.	kPa	13	22
Cooling capacity	Total capacity	Nom.	kW	1.2	1.7
	Sensible capacity	Nom.	kW	0.98	1.4
	Water volume	Nom.	m^3/hr	0.20	0.29
			l/min	3.4	4.9
	Water pressure drop	Nom.	kPa	10	17

2-2 Technical Specifications				FWXV15AVEB	FWXV20AVEB
Casing	Colour			White	
Dimensions	Packing	Height	mm	696	696
		Width	mm	786	786
		Depth	mm	286	286
	Unit	Height	mm	600	600
		Width	mm	700	700
		Depth	mm	210	210
Weight	Unit		kg	15	15
	Packed Unit		kg	19	19
Heat Exchanger	Dimensions	Length	mm	510	510
		Nr of Rows		2	2
		Fin Pitch	mm	1.2	1.2
		Nr of Stages		22	22
	Tube type			ø6.35 Smooth tube	
	Fin	Type		Multi slit fin	
Fan	Type			Turbo fan	
Air Flow Rate	Heating	High	m³/h	318	474
		Medium	m³/h	228	354
		Low	m³/h	150	240
		Silent Operation	m³/h	126	198
	Cooling	High	m³/h	318	474
		Medium	m³/h	228	354
		Low	m³/h	150	240
		Silent Operation	m³/h	126	198
Fan	Motor	Model		D48D-28	
		Number of steps		5 steps, silent and auto	
Motor	Speed (heating)	High	rpm	400	560
		Medium	rpm	310	440
		Low	rpm	230	320
		Silent Operation	rpm	210	280
	Speed (cooling)	High	rpm	400	560
		Medium	rpm	310	440
		Low	rpm	230	320
		Silent Operation	rpm	210	280
Heating	Sound Power	Medium	dBA	35	45
	Sound Pressure	Medium	dBA	19	29
Cooling	Sound Power	Medium	dBA	35	45
	Sound Pressure	Medium	dBA	19	29
Piping connections	Liquid ID/OD	Diameter	inch	G1/2 / G1/2	G1/2 / G1/2
	Gas ID/OD	Diameter	inch	G1/2 / G1/2	G1/2 / G1/2
	Drain	Diameter	mm	18	
	Heat Insulation			Both inlet and outlet pipes	
Air Filter				Removable/washable/Mildew proof	
Air direction control				Right, Left, Horizontal, Downward	
Temperature control				Microcomputer control	

2 Specifications

2-2 Technical Specifications		FWXV15AVEB	FWXV20AVEB
Standard Accessories	Item	Installation manual	
	Quantity	1	1
	Item	Operation manual	
	Quantity	1	1
	Item	Wireless remote control	
	Quantity	1	1
	Item	Batteries	
	Quantity	2	2
	Item	Remote control holder	
	Quantity	1	1
	Item	Drain hose	
	Quantity	1	1
	Item	Photocatalytic filter (apatite)	
	Quantity	2	2
	Item	Thermal insulation tape	
	Quantity	2	2
	Item	Thermal insulation tube	
	Quantity	2	2
	Item	Connection pipe	
	Quantity	2	2
	Item	Binding band	
	Quantity	1	1
	Item	O Ring	
	Quantity	4	4
Notes		Cooling: indoor temp. 27°CDB, 19°CWB; entering water temp. 7°C, water temperature rise 5K.	
		Heating: indoor temp. 20°CDB; entering water temp. 45°C, water temperature drop 5K.	
		The range of usable water temperature is 6°C (min.) to 60°C (max.)	
		Maximum allowable water pressure is 1.18 MPa	
		Comply with drinking water directive 98/93/EC for chilled water, hot water and make up water.	
		The amount of water circulation should be 3l/min to 15l/min (0.18m³/hr to 0.9m³/hr)	
		Allowable model of hydrobox interlinking is BA-series	

2-3 Electrical Specifications				FWXV15AVEB	FWXV20AVEB
Power Supply	Name			VE	
	Phase			1	1
	Frequency		Hz	50/60	50/60
	Voltage		V	220-240 / 220	
Current	Nominal running current (RLA)	Heating	A	0.08	0.10
		Cooling	A	0.08	0.10

3 Capacity tables

3 - 1 Heating capacity tables

FWXV15-20A

Heating capacity tables

Air temperature (°C)		20°C														
Water temperature (Entering °C - leaving °C)		35°C-30°C			45°C-40°C			50°C-45°C			55°C-45°C			60°C-50°C		
Model	Fan	Heating capacity	Water flow	Water pressure drop	Heating capacity	Water flow	Water pressure drop	Heating capacity	Water flow	Water pressure drop	Heating capacity	Water flow	Water pressure drop	Heating capacity	Water flow	Water pressure drop
		kW	L/min	kPa	kW	L/min	kPa	kW	L/min	kPa	kW	L/min	kPa	kW	L/min	kPa
FWXV15AVEB	H	1.12	3.2	7	2.00	5.7	22	2.43	7.0	32	2.85	4.1	12	3.27	4.7	15
	M	0.83	2.4	4	1.50	4.3	13	1.82	5.2	19	2.13	3.1	7	2.44	3.5	9
	L	0.50	1.4	2	1.00	2.9	6	1.35	3.9	10	1.43	2.0	3	1.64	2.4	4
FWXV20AVEB	H	1.65	4.7	15	3.00	8.6	49	3.67	10.5	71	4.33	6.2	26	4.99	7.2	34
	M	1.12	3.2	7	2.00	5.7	22	2.43	7.0	32	2.86	4.1	12	3.29	4.7	15
	L	0.83	2.4	4	1.50	4.3	13	1.82	5.2	19	2.13	3.1	7	2.44	3.5	9

Air temperature (°CDB-°CWB)		22°CDB														
Water temperature (Entering °C - leaving °C)		35°C-30°C			45°C-40°C			50°C-45°C			55°C-45°C			60°C-50°C		
Model	Fan	Heating capacity	Water flow	Water pressure drop	Heating capacity	Water flow	Water pressure drop	Heating capacity	Water flow	Water pressure drop	Heating capacity	Water flow	Water pressure drop	Heating capacity	Water flow	Water pressure drop
		kW	L/min	kPa	kW	L/min	kPa	kW	L/min	kPa	kW	L/min	kPa	kW	L/min	kPa
FWXV15AVEB	H	1.01	2.9	6	1.84	5.3	19	2.27	6.5	28	2.69	3.9	10	3.11	4.5	14
	M	0.75	2.2	3	1.38	4.0	11	1.70	4.9	16	2.01	2.9	6	2.31	3.3	8
	L	0.45	1.3	1	0.92	2.6	5	1.26	3.6	9	1.35	1.9	3	1.55	2.2	4
FWXV20AVEB	H	1.48	4.2	13	2.76	7.9	41	3.42	9.8	62	4.08	5.8	23	4.74	6.8	31
	M	1.00	2.9	6	1.84	5.3	19	2.27	6.5	28	2.70	3.9	10	3.12	4.5	14
	L	0.75	2.2	3	1.38	4.0	11	1.70	4.9	16	2.01	2.9	6	2.31	3.3	8

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3 Capacity tables

3 - 2 Cooling capacity tables

FWXV15-20A

Cooling capacity tables

Air temperature (°CDB-°CWB)		27°CDB-19°CWB															
Water temperature (Entering °C - leaving °C)		6°C-11°C				7°C-12°C				8°C-13°C				9°C-14°C			
Model	Fan	Total cooling capacity	Sensible cooling capacity	Water flow	Water pressure drop	Total cooling capacity	Sensible cooling capacity	Water flow	Water pressure drop	Total cooling capacity	Sensible cooling capacity	Water flow	Water pressure drop	Total cooling capacity	Sensible cooling capacity	Water flow	Water pressure drop
		kW	kW	L/min	kPa	kW	kW	L/min	kPa	kW	kW	L/min	kPa	kW	kW	L/min	kPa
FWXV15AVEB	H	1.77	1.44	5.1	20	1.70	1.39	4.9	19	1.55	1.31	4.4	16	1.41	1.25	4.0	13
	M	1.25	1.00	3.6	10	1.20	0.98	3.4	10	1.09	0.92	3.1	8	1.00	0.88	2.9	7
	L	0.83	0.67	2.4	5	0.80	0.66	2.3	4	0.73	0.62	2.1	4	0.66	0.59	1.9	3
FWXV20AVEB	H	2.60	2.13	7.5	42	2.50	2.05	7.2	39	2.28	1.93	6.5	33	2.08	1.85	6.0	27
	M	1.77	1.46	5.1	20	1.70	1.40	4.9	19	1.55	1.32	4.4	16	1.41	1.26	4.0	13
	L	1.25	1.03	3.6	10	1.20	0.99	3.4	10	1.09	0.93	3.1	8	1.00	0.89	2.9	7

Air temperature (°CDB-°CWB)		22°CDB-16°CWB															
Water temperature (Entering °C - leaving °C)		6°C-11°C				7°C-12°C				8°C-13°C				9°C-14°C			
Model	Fan	Total cooling capacity	Sensible cooling capacity	Water flow	Water pressure drop	Total cooling capacity	Sensible cooling capacity	Water flow	Water pressure drop	Total cooling capacity	Sensible cooling capacity	Water flow	Water pressure drop	Total cooling capacity	Sensible cooling capacity	Water flow	Water pressure drop
		kW	kW	L/min	kPa	kW	kW	L/min	kPa	kW	kW	L/min	kPa	kW	kW	L/min	kPa
FWXV15AVEB	H	1.31	1.09	3.8	11	1.19	1.03	3.4	9	1.05	0.99	3.0	7	0.93	0.93	2.7	6
	M	0.93	0.76	2.7	6	0.84	0.74	2.4	5	0.74	0.72	2.1	4	0.66	0.66	1.9	3
	L	0.61	0.51	1.7	3	0.56	0.50	1.6	2	0.50	0.49	1.4	2	0.44	0.44	1.3	1
FWXV20AVEB	H	1.92	1.62	5.5	23	1.75	1.52	5.0	20	1.55	1.41	4.4	16	1.37	1.37	3.9	12
	M	1.31	1.11	3.8	11	1.19	1.05	3.4	9	1.04	1.03	3.0	7	0.93	0.93	2.7	6
	L	0.93	0.78	2.7	6	0.84	0.75	2.4	5	0.74	0.73	2.1	4	0.66	0.66	1.9	3

Air temperature (°CDB-°CWB)		25°CDB-18°CWB															
Water temperature (Entering °C - leaving °C)		6°C-11°C				7°C-12°C				8°C-13°C				9°C-14°C			
Model	Fan	Total cooling capacity	Sensible cooling capacity	Water flow	Water pressure drop	Total cooling capacity	Sensible cooling capacity	Water flow	Water pressure drop	Total cooling capacity	Sensible cooling capacity	Water flow	Water pressure drop	Total cooling capacity	Sensible cooling capacity	Water flow	Water pressure drop
		kW	kW	L/min	kPa	kW	kW	L/min	kPa	kW	kW	L/min	kPa	kW	kW	L/min	kPa
FWXV15AVEB	H	1.58	1.28	4.5	16	1.51	1.24	4.3	15	1.35	1.15	3.9	12	1.24	1.11	3.6	10
	M	1.11	0.90	3.2	8	1.07	0.87	3.1	8	0.95	0.81	2.7	6	0.88	0.78	2.5	5
	L	0.74	0.60	2.1	4	0.71	0.58	2.0	3	0.64	0.55	1.8	3	0.58	0.53	1.7	2
FWXV20AVEB	H	2.31	1.90	6.6	33	2.23	1.82	6.4	31	1.98	1.70	5.7	25	1.83	1.65	5.2	21
	M	1.58	1.31	4.5	16	1.51	1.25	4.3	15	1.35	1.16	3.9	12	1.24	1.12	3.6	10
	L	1.11	0.93	3.2	8	1.07	0.88	3.1	8	0.95	0.82	2.7	6	0.88	0.79	2.5	5

Air temperature (°CDB-°CWB)		30°CDB-22°CWB															
Water temperature (Entering °C - leaving °C)		6°C-11°C				7°C-12°C				8°C-13°C				9°C-14°C			
Model	Fan	Total cooling capacity	Sensible cooling capacity	Water flow	Water pressure drop	Total cooling capacity	Sensible cooling capacity	Water flow	Water pressure drop	Total cooling capacity	Sensible cooling capacity	Water flow	Water pressure drop	Total cooling capacity	Sensible cooling capacity	Water flow	Water pressure drop
		kW	kW	L/min	kPa	kW	kW	L/min	kPa	kW	kW	L/min	kPa	kW	kW	L/min	kPa
FWXV15AVEB	H	2.32	1.57	6.7	34	2.23	1.50	6.4	31	2.00	1.40	5.7	25	1.80	1.33	5.2	21
	M	1.64	1.09	4.7	17	1.57	1.06	4.5	16	1.41	0.98	4.0	13	1.28	0.93	3.7	11
	L	1.09	0.73	3.1	8	1.05	0.71	3.0	7	0.94	0.66	2.7	6	0.84	0.63	2.4	5
FWXV20AVEB	H	3.41	2.32	9.8	70	3.28	2.21	9.4	65	2.94	2.07	8.4	53	2.66	1.96	7.6	44
	M	2.32	1.59	6.7	34	2.23	1.51	6.4	31	2.00	1.41	5.7	25	1.80	1.34	5.2	21
	L	1.64	1.12	4.7	17	1.57	1.07	4.5	16	1.41	1.00	4.0	13	1.28	0.94	3.7	11

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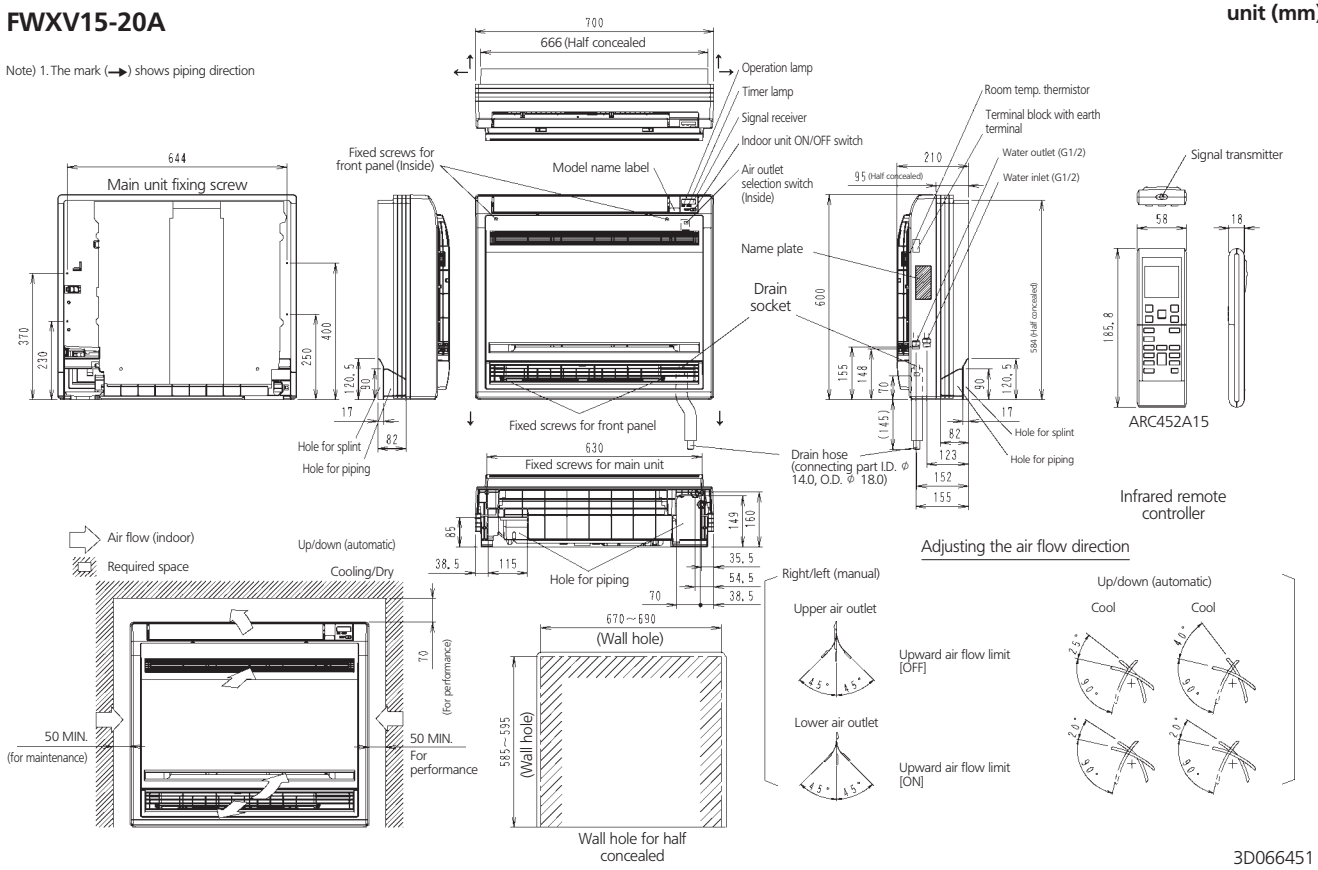
4 Dimensional drawing & centre of gravity

4 - 1 Dimensional drawing

FWXV15-20A unit (mm)



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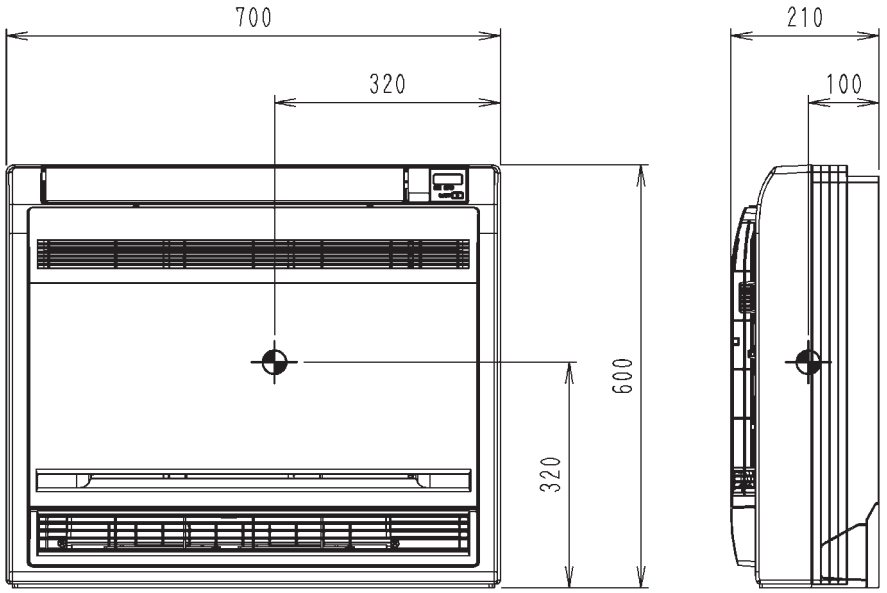
4 Dimensional drawing & centre of gravity

4 - 2 Centre of gravity

FWXV15-20A



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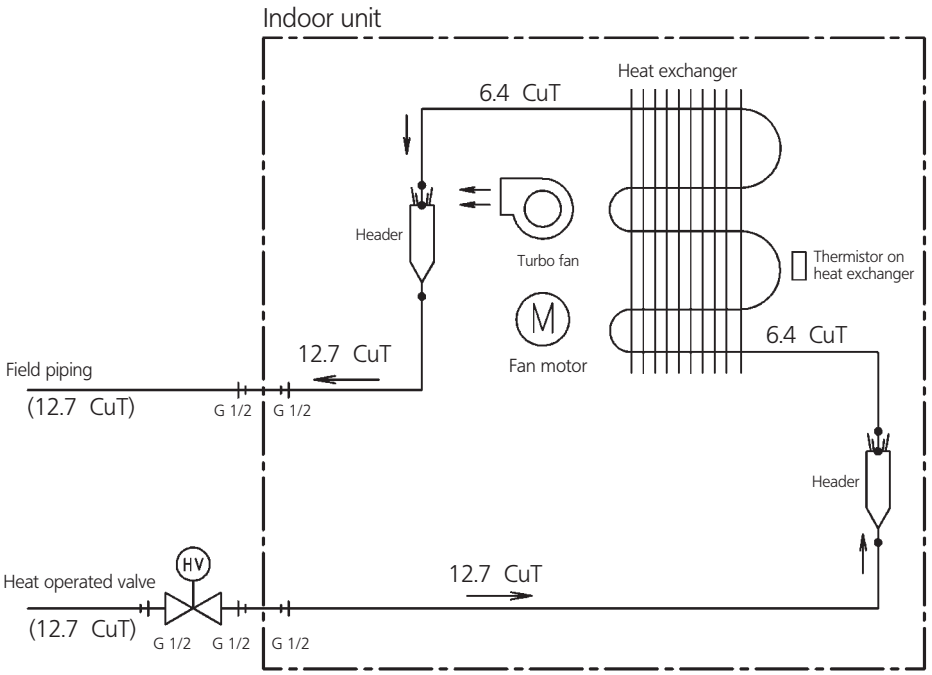
5 Piping diagram

5 - 1 Piping diagram

FWXV15-20A



Refrigerant flow
Cooling, Heating

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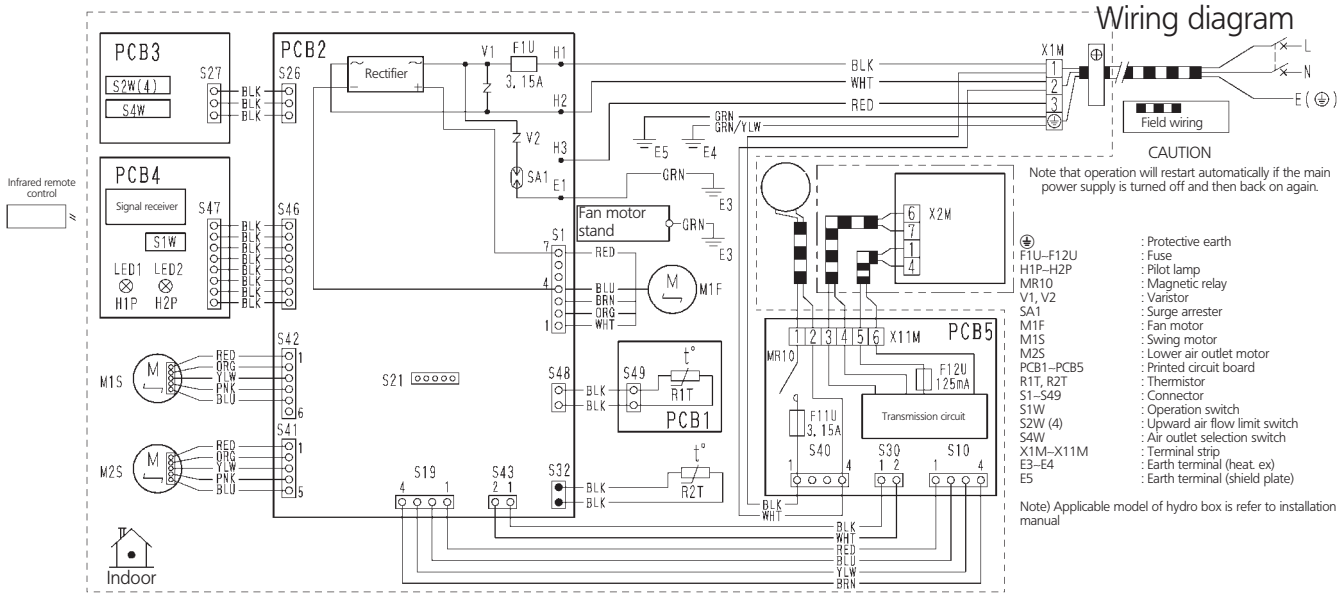
6 Wiring diagram

6 - 1 Wiring diagram

FWXV15-20A



NOTES:
1 Size: Length 70 X Width 155
2 Refer to purchasing specification AS303002, unless otherwise specified.
3 This drawing was drawn on CAD system.

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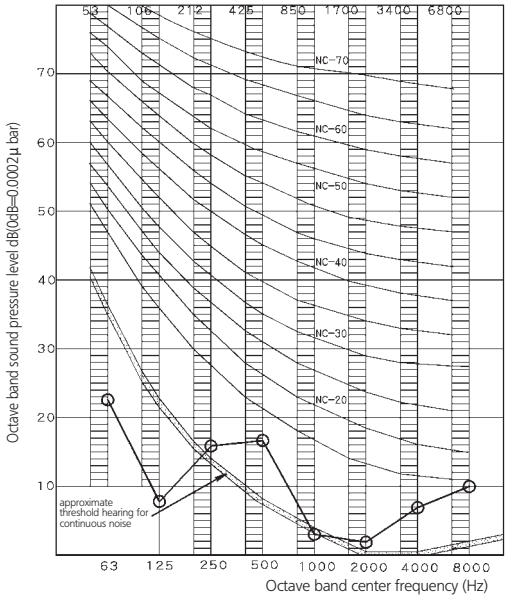
7 Sound data

7 - 1 Sound pressure spectrum

FWXV15A

Cooling, Heating



Overall (dB)

Scale A	19

(B,G,N is already rectified)

Measuring place
Measure in anechoic room

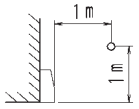
Note: Operation noise differs with operation and ambient conditions.

Operating conditions

Power source 220-240V 50Hz, 220V 60Hz
Cooling, Heating

Location of microphone

The operation sound measuring method is in accordance with JISC9612.



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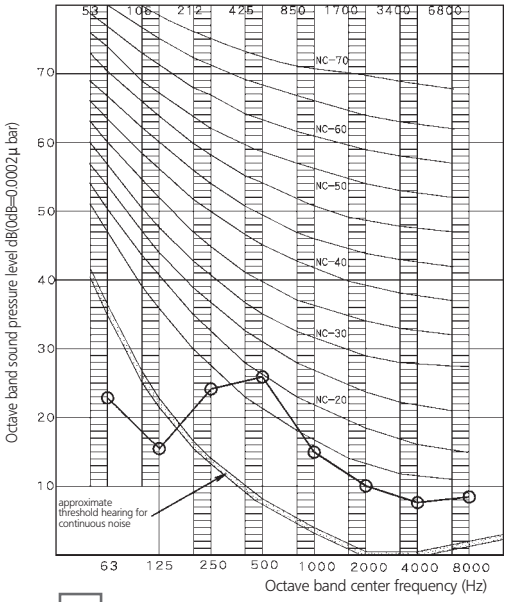
FWXV20A

Cooling, Heating



Overall (dB)

Scale A	29

(B,G,N is already rectified)

Measuring place
Measure in anechoic room

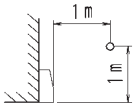
Note: Operation noise differs with operation and ambient conditions.

Operating conditions

Power source 220-240V 50Hz, 220V 60Hz
Cooling, Heating

Location of microphone

The operation sound measuring method is in accordance with JISC9612.



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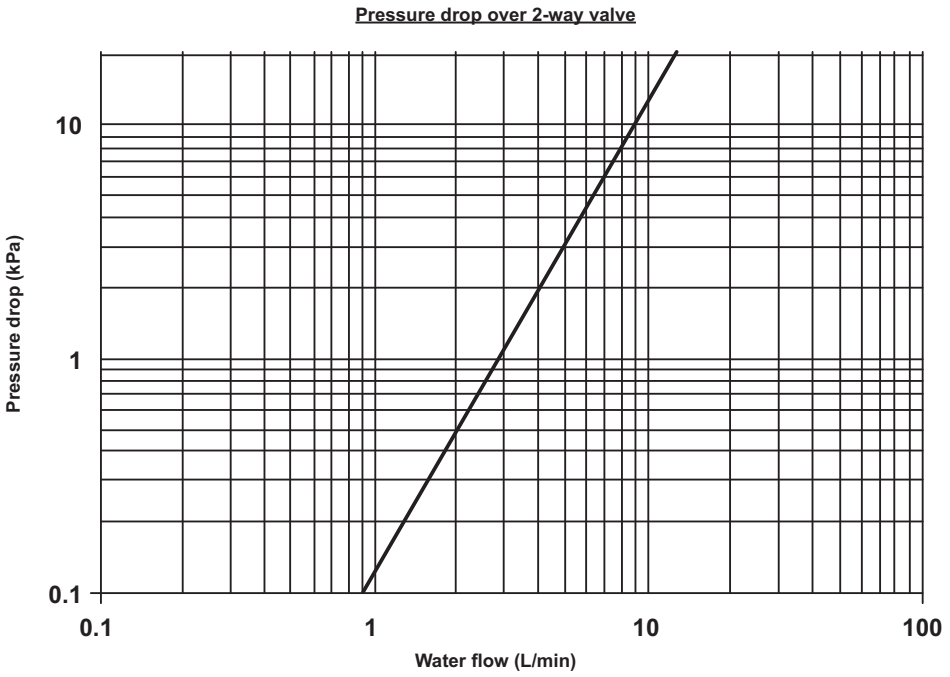
8 Hydraulic performance

8 - 1 Static pressure drop unit

FWXV-A



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NOTE

1. This graph can be used to calculate the pressure drop over the 2-way valve.
   The pressure drop over the Heat Pump Convector is not included.

TABLE OF CONTENTS

EKHTS-A

1 Features

- High temperature application: up to 80°C without electric heater
- Stainless steel domestic hot water tank
- Cost effective alternative to a fossil fuel boiler
- Low energy bills and low CO2 emissions
- Easy to install
- Total solution for year round comfort

2 Specifications

2-1 Technical Specifications				EKHTS200A	EKHTS260A
Casing	Colour			Metallic grey	
	Material			Galvanised steel (precoated sheet metal)	
Dimensions	Packing	Height	mm	1,470	1,745
		Width	mm	680	680
		Depth	mm	800	800
	Unit	Height	mm	1,335	1,610
Unit	Height	Integrated on indoor unit	mm	2,010	2,285
Dimensions	Unit	Width	mm	600	600
		Depth	mm	695	695
Weight	Machine weight - empty		kg	70	78
	Gross Weight - empty		kg	81	89
Packing	Material			EPS	
				Carton	
				Wood	
	Weight		kg	11	11
Main components	Tank	Water volume	l	200	260
		Material		Stainless steel (DIN 1.4521)	
		Max. temperature	°C	75	75
		Max. water pressure	bar	10	10
Tank	Insulation	Material		EPS	
		Heat loss	kWh/24h	1.2	1.5
Main components	Heat exchanger	Quantity		1	1
		Material		Duplex steel LDX 2101	
		Surface	m²	1.56	1.56
		Internal coil volume	l	7.5	7.5
3-Way Valve	Coefficient of flow (kV)	space heating	m³/h	13	13
		domestic hot water tank	m³/h	8	8
Main components	3-Way Valve	Inlet	inch	Male Quick coupling 35	
3-Way Valve	Outlet	space heating	mm	Female Quick coupling 35	
		domestic hot water tank	mm	Female Quick coupling 25	
Temperature sensor	Cable length		m	11.5	11.5
Piping connections	Water inlet heat exchanger	Diameter	mm	Female Quick coupling 25	
	Water outlet heat exchanger	Diameter	mm	Female Quick coupling 25	
	Water inlet heat exchanger	Diameter	inch	G 3/4 (female)	
	Water outlet heat exchanger	Diameter	inch	G 3/4 (female)	
	Cold water in Diameter		inch	G 3/4 (female)	
	Hot water out Diameter		inch	G 3/4 (female)	
	Recirculation connection		inch	G 1/2 (male)	
Safety Devices				Thermal cutout (on indoor unit): 90-95°C	
Service hole	Size	Diameter	mm		

3 Capacity tables

3 - 1 Heating capacity tables

Altherma HT-TW Domestic hot water tank

The DAIKIN ALTHERMA heat pump in combination with the optional domestic hot water tank provide hot water for household usage.
The below mentioned date allow a proper selection of the domestic hot water tank size for maximum comfort and efficiency.

(1) Capacity:

	EKHTS*200	EKHTS*260
Total capacity (L)	210	258
Actual capacity (L)	193,5	250,5

Total capacity = internal volume of tank(= effective water volume+ coil volume)
Actual capacity=effective water volume inside the tank

(2) Maximum volume of usable hot water:
The volume of hot water available for domestic usage depends on the physical volume of the tank, on the domestic water setpoint temperature and on the temperature spreading in the tank.

Definition:
Maximum volume of usable hot water = the volume of hot water available for domestic usage at a temperature of 40°C.
40°C is considered a comfortable domestic hot water temperature. (cold water inlet temp = 10°C)

Tank	Setpoint temp.	Maximum volume of usable hot water	Tapping pattern*			
			Small	Medium	High	very high
EKHTS*200	40	190	+++	+	-	-
	50	255	+++	++	-	-
	60	320	+++	+++	-	-
	70	385	+++	+++	+	-
EKHTS*260	40	250	+++	++	-	-
	50	330	+++	+++	-	-
	60	415	+++	+++	++	-
	70	500	+++	+++	++	+

Grade +++ more than excessive availability of sanitary hot water (more than 40% of EHWV is still available after tapping pattern)
++ Excessive availability of sanitary hot water. (10%< EHWV still available after tapping pattern<40%)
+ Sufficient availability of sanitary hot water. (EHWV still available after tapping pattern <10%)
- Temporary shortage of sanitary hot water can occur.

Tapping pattern** **Small** Daily demand up to 90l -> typical 1-person daily usage pattern
Medium Daily demand up to 190l -> typical 2-persons daily usage pattern
High Daily demand up to 370l -> typical 3 to 4 persons daily usage pattern
very high Daily demand up to 500l -> 5 to 6 persons daily usage pattern

* based upon heat up to tank once / 24 hours
** Heat losses (over 24 hrs) are included in the tapping patterns

(3) Standing Heat loss:

Tank	Heat losses [kWh/24h]
EKHTS*200	1.2
EKHTS*260	1.5

* heat loss of tank at △T = 45K

(4) Heat-up time:

Definition:
Heat-up time = The time is required to heat up the domestic hot water tank from 15°C to 60°C (minutes)

Tank	Heat-up time <min>		
	EKHBRD11	EKHBRD14	EKHBRD16
EKHTS*200	60	50	40
EKHTS*260	70	60	50

conditions for testing: Ta = 7°CDB / 6°CWB, TStart = 15°C

(5) Reheat time:

Definition:
Reheat time = The time required to reheat the deomestic hot water tank back to 60°C after tapping 70% of the actual volume.

Tank	Reheat time <min>		
	EKHBRD11	EKHBRD14	EKHBRD16
EKHTS*200	50	40	30
EKHTS*260	60	50	40

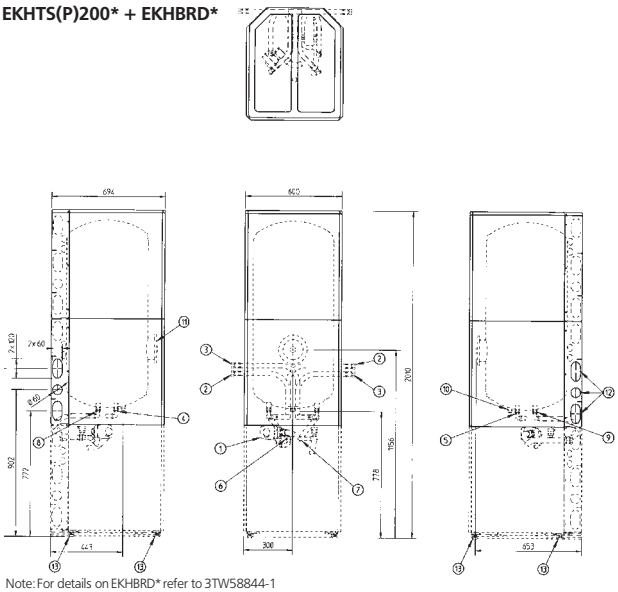
Starting condition before tapping 70% of volume: tank at 60°C
conditions for testing: Ta = 7°CDB / 6°CWB, TCold = 15°C

3TW58802-1A

4 Dimensional drawing & centre of gravity

4 - 1 Dimensional drawing

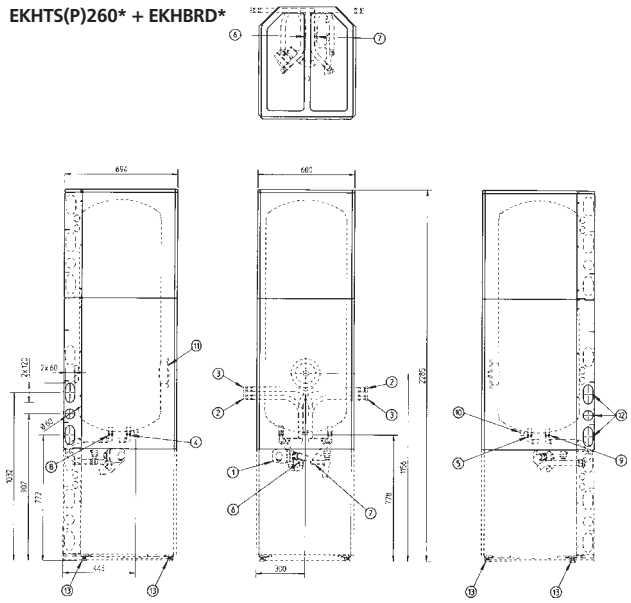
EKHTS(P)200* + EKHBRD*



1 3 way valve
2 Hot water out connection G 3/4" Female
3 Cold water in connection G 3/4" Female
4 Hot water out (quick coupling) at bottom tank
5 Cold water in (quick coupling) at bottom tank
6 Tank connection from EKHBRD (quick coupling)
7 Tank connection to EKHBRD (quick coupling)
8 Tank connection from EKHBRD (quick coupling) at bottom tank
9 Tank connection to EKHBRD (quick coupling) at bottom tank
10 Recirculation connection G 1/2" (Male)
11 Service hole inner Φ 125, socket spanner width 32mm (only on EKHTSP * models)
12 Knock-out holes for water piping
13 Levelling feet (on EKHBRD* unit)

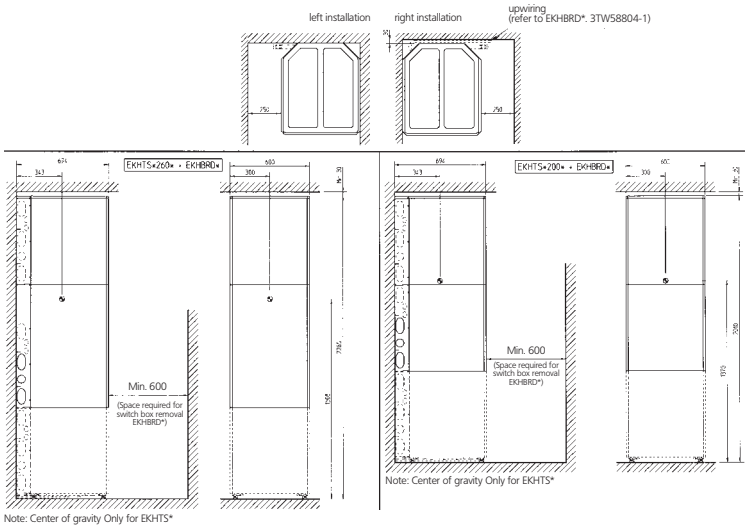
Note: For details on EKHBRD* refer to 3TW58844-1

EKHTS(P)260* + EKHBRD*



1 3 way valve
2 Hot water out connection G 3/4" Female
3 Cold water in connection G 3/4" Female
4 Hot water out (quick coupling) at bottom tank
5 Cold water in (quick coupling) at bottom tank
6 Tank connection from EKHBRD (quick coupling)
7 Tank connection to EKHBRD (quick coupling)
8 Tank connection from EKHBRD (quick coupling) at bottom tank
9 Tank connection to EKHBRD (quick coupling) at bottom tank
10 Recirculation connection G 1/2" (Male)
11 Service hole inner Φ 125, socket spanner width 32mm (only on EKHTSP * models)
12 Knock-out holes for water piping
13 Levelling feet (on EKHBRD* unit)

Note: For details on EKHBRD* refer to 3TW58844-1



Note: Center of gravity Only for EKHTS*

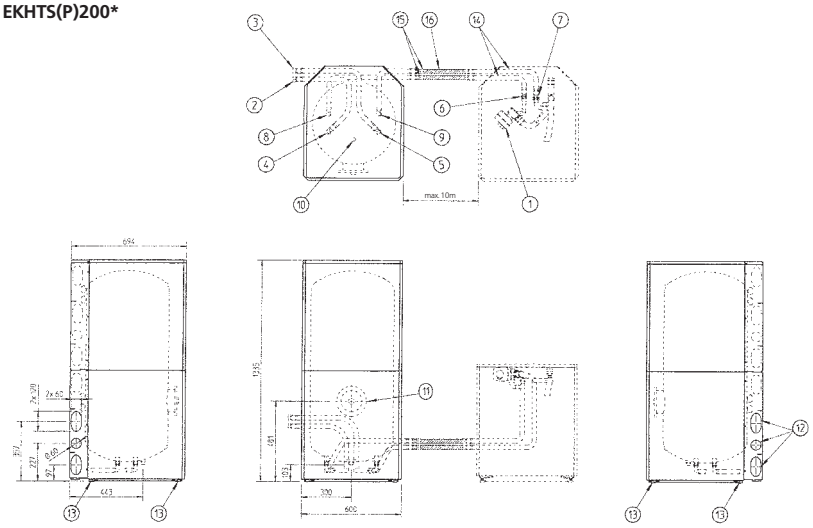
Note: Center of gravity Only for EKHTS*

3TW58804-1A

4 Dimensional drawing & centre of gravity

4 - 1 Dimensional drawing

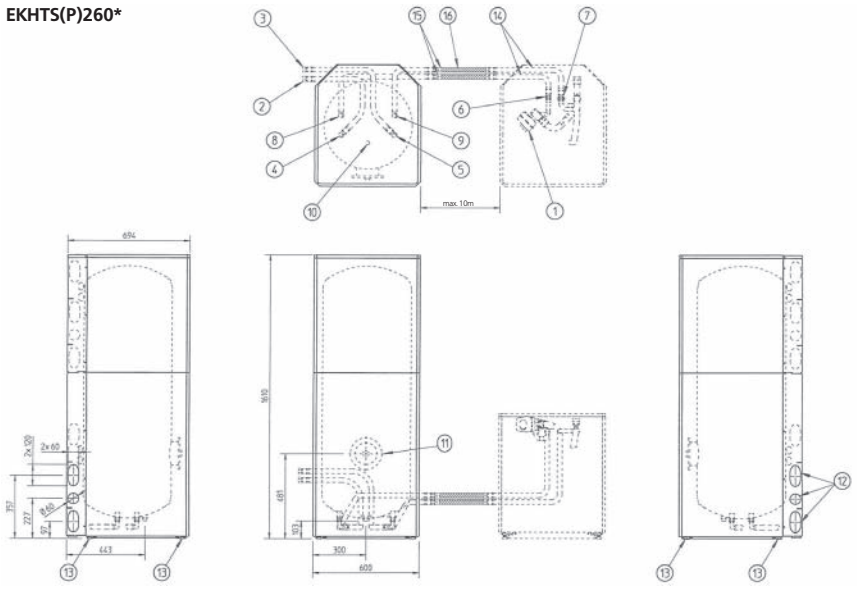
EKHTS(P)200*



1 3 way valve
2 Hot water out connection G 3/4" Female
3 Cold water in connection G 3/4" Female
4 Hot water out (quick coupling) at bottom tank
5 Cold water in (quick coupling) at bottom tank
6 Tank connection from EKHBRD (quick coupling)
7 Tank connection to EKHBRD (quick coupling)
8 Tank connection from EKHBRD (quick coupling) at bottom tank
9 Tank connection to EKHBRD (quick coupling) at bottom tank
10 Recirculation connection G 1/2" (Male)
11 Service hole inner Φ 125, socket spanner width 32mm (only on EKHTSP * models)
12 Knock-out holes for water piping
13 Levelling feet (in option kit EKFMATHA)
14 Flexible pipes (in option kit EKFMATHA)
15 Adaptor quick connection- G 3/4" (in option kit EKFMAHTA)
16 Field piping

Note: For details on EKHBRD* refer to 3TW58844-1

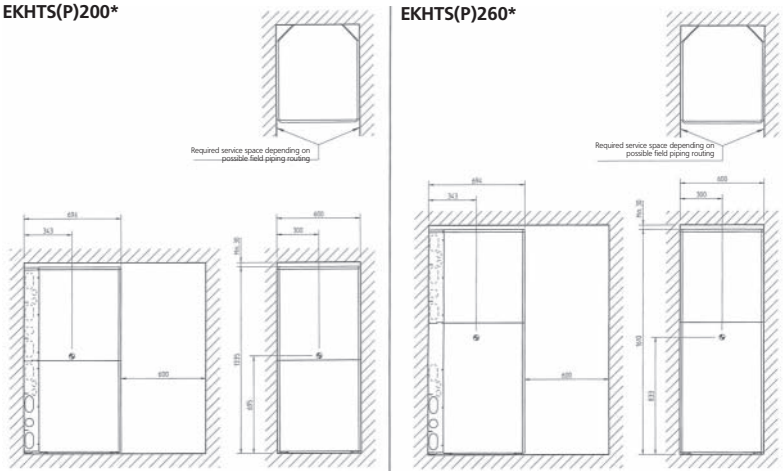
EKHTS(P)260*



1 3 way valve
2 Hot water out connection G 3/4" Female
3 Cold water in connection G 3/4" Female
4 Hot water out (quick coupling) at bottom tank
5 Cold water in (quick coupling) at bottom tank
6 Tank connection from EKHBRD (quick coupling)
7 Tank connection to EKHBRD (quick coupling)
8 Tank connection from EKHBRD (quick coupling) at bottom tank
9 Tank connection to EKHBRD (quick coupling) at bottom tank
10 Recirculation connection G 1/2" (Male)
11 Service hole inner Φ 125, socket spanner width 32mm (only on EKHTSP * models)
12 Knock-out holes for water piping
13 Levelling feet (in option kit EKFMATHA)
14 Flexible pipes (in option kit EKFMATHA)
15 Adaptor quick connection- G 3/4" (in option kit EKFMAHTA)
16 Field piping

Note: For details on EKHBRD* refer to 3TW58844-1

EKHTS(P)200* **EKHTS(P)260***



Note: For details on EKHBRD* refer to 3TW58844-1

3TW58804-2

5 Piping diagram

5 - 1 Piping diagram

EKHTS

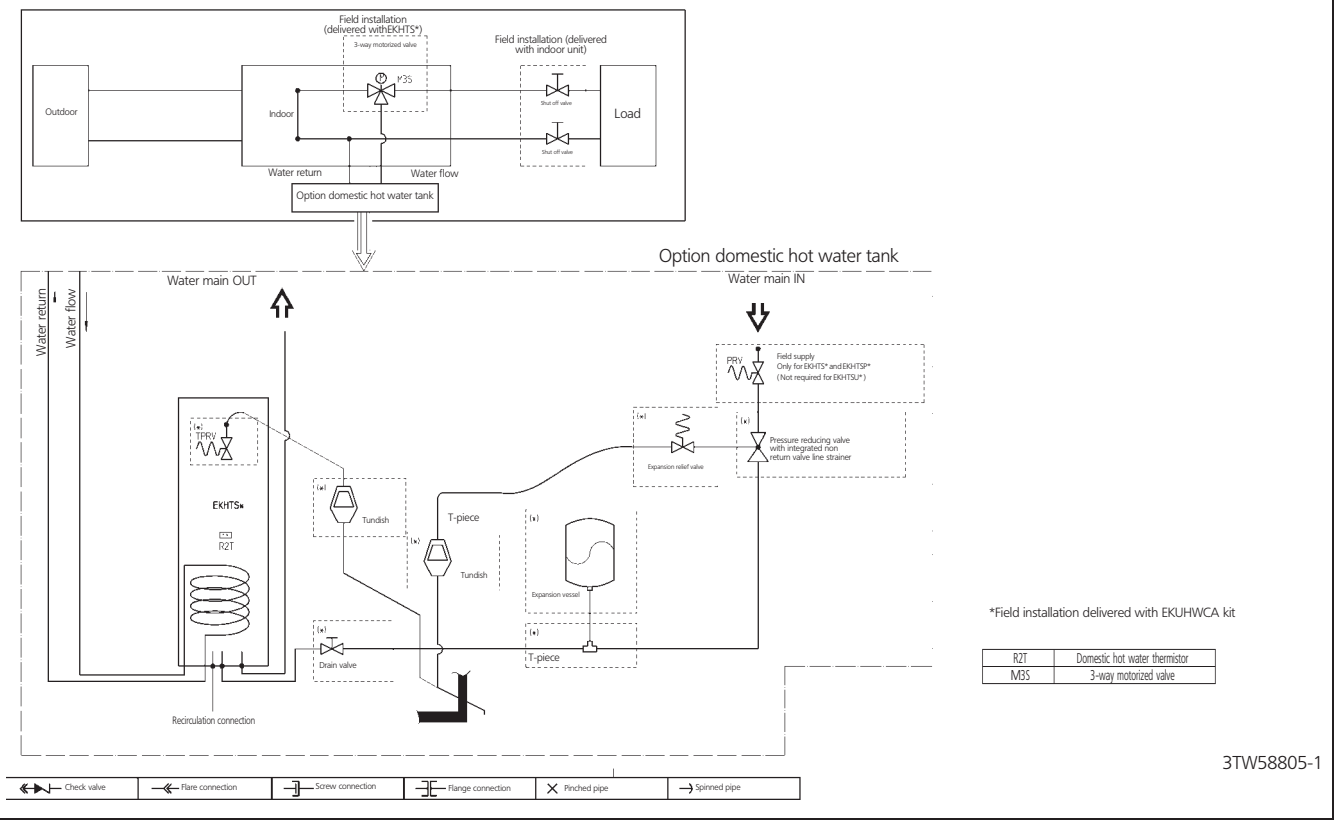


TABLE OF CONTENTS

EKHWP-A

1 Features

- High temperature application: up to 80×C without electric heater
- High storage tank capacity and very low storage tank losses
- Cost effective alternative to a fossil fuel boiler
- Low energy bills and low CO2 emissions
- Easy to install
- Total solution for year round comfort

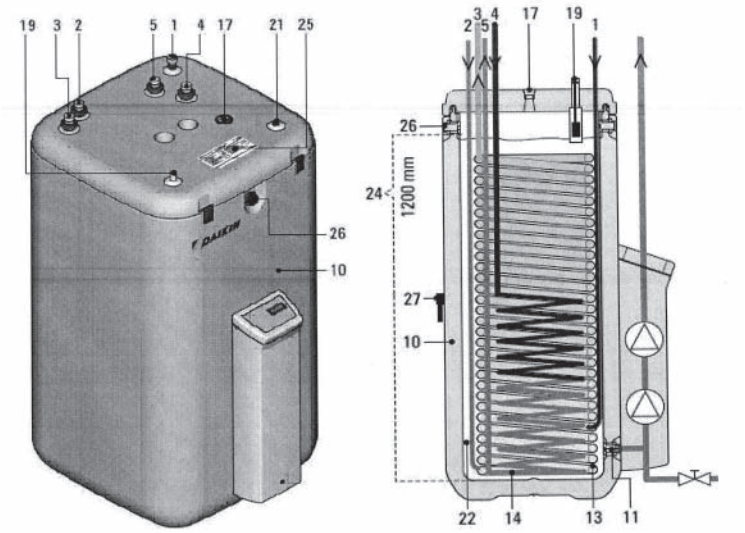
2 Specifications

2-1 TECHNICAL SPECIFICATIONS				EKHWP300A	EKHWP500A
Mounting				Floor standing	
Casing	Colour			Dust grey (RAL7037)	
	Material			Impact resistant polypropylene	
Dimensions	Packing	Height	mm	1,750	
		Width	mm	800	800
		Depth	mm	800	800
	Unit	Height	mm	1,590	
		Width	mm	595	790
		Depth	mm	615	790
Weight	Machine weight - empty		kg	59	92
	Machine weight - full		kg	355	592
	Gross Weight - empty		kg	67	100
Packing	Material			Pallet	
				Carton	
				Plastic	
				EPS	
	Weight		kg	8	8
Main components	Tank	Water volume	l	300	500
		Max. temperature	×C	85	85
Heat exchanger	Domestic hot water	Tube Material		Stainless steel (DIN 1.4404)	
		Face area	m²	5.7	5.9
		Internal coil volume	l	27.8	28.4
Domestic hot water	Operating pressure	Bar		6	6
Heat exchanger	Domestic hot water	Average specific thermal output	W/K	2,795	2,860
	Charging	Tube Material		Stainless steel (DIN 1.4404)	
		Face area	m²	2.5	3.7
		Internal coil volume	l	12.3	17.4
		Average specific thermal output	W/K	1,235	1,809
	Auxiliary solar heating	Tube Material		Stainless steel (DIN 1.4404)	
		Face area	m²		1.0
		Internal coil volume	l		5
		Average specific thermal output	W/K		313
Temperature sensor	Cable length		m	12	12
Piping connections	Water inlet heat exchanger	Diameter	mm		G1''
	Water outlet heat exchanger	Diameter	mm		G1''
	Solar collector inlet		inch	1" Female union joint	
	Charging heat exchanger		inch		G1"
	Auxiliary solar heating heat exchanger		inch		G1"
	Level difference	Tank - Solar collector	m	12	12

3 Dimensional drawing & centre of gravity

3 - 1 Dimensional drawing

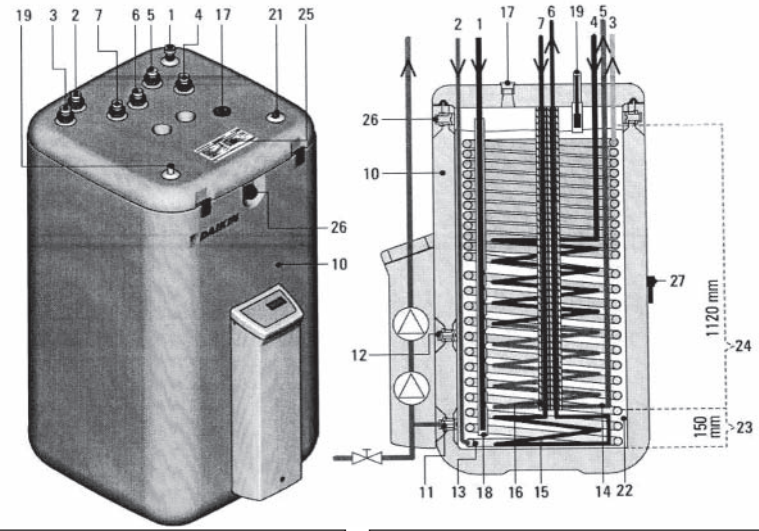
EKHWP300A



1. Inlet from solar collector (1"F junction joint)	15. Heat exchanger for solar heating support
2. Cold water inlet (1"M)	16. Heat insulation shell for solar heating support
3. Hot water outlet (1"M)	17. Insertion hole for electric heater option (not ued)
4. Inlet from heatpump (1"M)	18. Solar collector inlet stratification pipe
5. Return to heatpump (1"M)	19. Filling level indicator
6. Heating support outlet (1"M)	21. Dip sleeve for temperature sensors
7. Heating support outlet (1"M)	22. Pressure-free storage tank water
10. Storage tank	23. Solar zone
11. Fill and drain valve	24. Service water zone
12. Connection for equalisation pipe (not used)	25. Nameplate
13. Heat exchanger domestic hot water	26. Safety overflow fitting
14. Heating heat exchanger	27 Handle

4TW59655-1

EKHWP500A



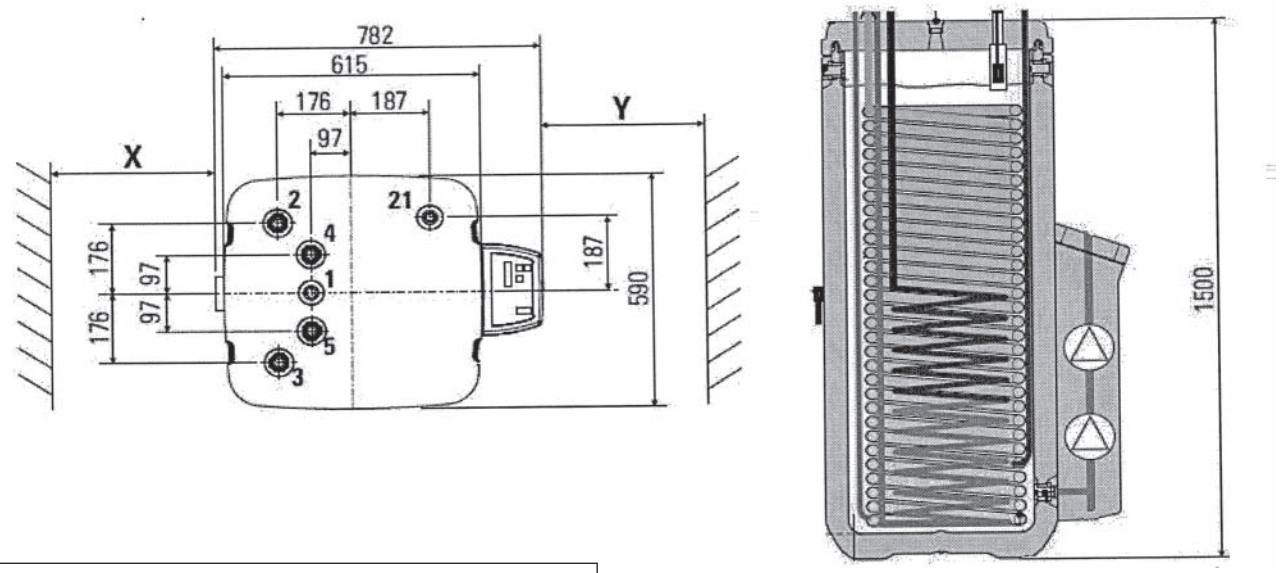
1. Inlet from solar collector (1"F junction joint)	14. Heating heat exchanger
2. Cold water inlet (1"M)	15. Heat exchanger for solar heating support
3. Hot water outlet (1"M)	16. Heat insulation shell for solar heating support
4. Inlet from heatpump (1"M)	17. Insertion hole for electric heater option (not ued)
5. Return to heatpump (1"M)	18. Solar collector inlet stratification pipe
6. Heating support outlet (1"M)	19. Filling level indicator
7. Heating support outlet (1"M)	21. Dip sleeve for temperature sensors
8. Solar support outlet (1"M)	22. Pressure-free storage tank water
9 Solar support inlet (1"M)	23. Solar zone
10. Storage tank	24. Service water zone
11. Fill and drain valve	25. Nameplate
12. Connection for equalisation pipe (not used)	26. Safety overflow fitting
13. Heat exchanger domestic hot water	27 Handle

4TW59655-2

3 Dimensional drawing & centre of gravity

3 - 1 Dimensional drawing

EKHWP300A



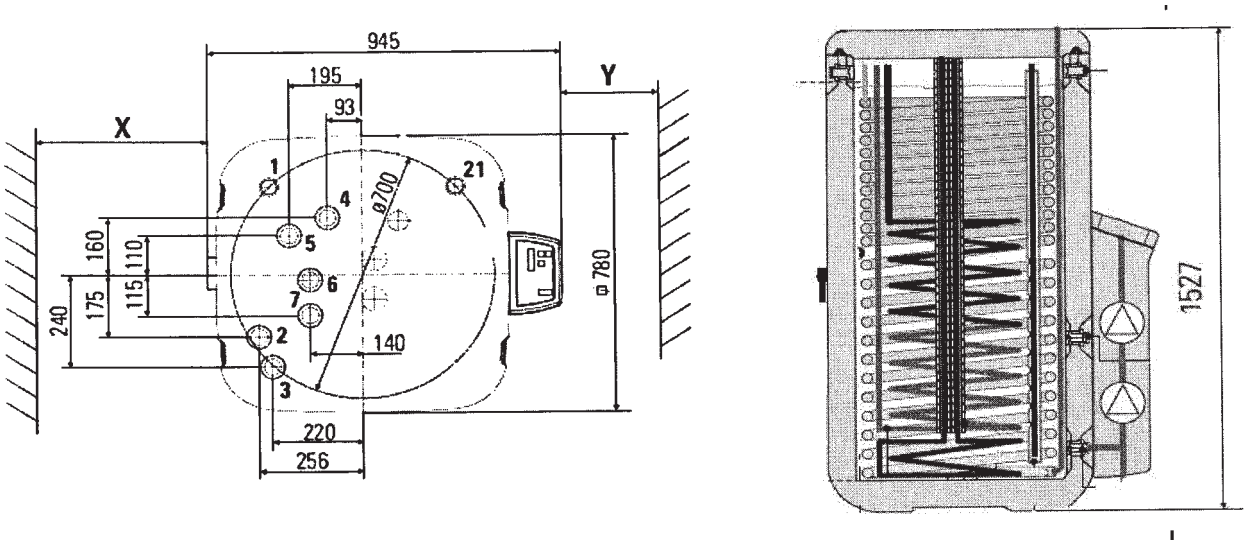
1. Inlet from solar collector (1" F junction joint)
2. Cold water inlet (1"M)
3. Hot water outlet (1"M)
4. Inlet from heatpump (1"M)
5. Return to heatpump (1"M)

21. Dip Sleeve for temperature sensors

X = wall clearance > 20 cm
Y = Required service space > 80 cm

4TW59654-1

EKHWP500A



1. Inlet from solar collector (1" F junction joint)
2. Cold water inlet (1"M)
3. Hot water outlet (1"M)
4. Inlet from heatpump (1"M)
5. Return to heatpump (1"M)
6. Heating support outlet (1"M)
7. Heating support inlet (1"M)

21. Dip Sleeve for temperature sensors

X = wall clearance > 20 cm
Y = Required service space > 80 cm

4TW59654-2

TABLE OF CONTENTS

EKHWS-B