

# Why choose a Daikin Altherma ST thermal store or domestic hot water tank?

Whether you only need hot water or you want to combine your hot water with solar systems, we offer you the best solutions to the highest levels of comfort, energy efficiency and reliability.





## Domestic hot water tanks

#### Stainless steel tanks

#### Comfort

- > EKHTS-AC: available in 200 and 260 L in stainless steel
- > EKHWS(U)-B: available in 150, 200 and 300 litres in stainless steel
- > EKHWS-B: available for 400V applications
- > EKHWS(U)-D: available in 150, 180, 200, 250 and 300 litres in stainless steel

#### Efficiency

- > High-quality insulation keeps heat loss to a minimum
- > Efficient temperature heating: from 10 °C to 50 °C in only 60 minutes
- > Available as an integrated solution or separate tank

#### Reliability

At necessary intervals, the unit can heat up water up to 60 °C to prevent the risk of bacteria growth

## The ECH<sub>2</sub>0 thermal store range

### **ECH<sub>2</sub>O** thermal store: additional hot water comfort

Combine your monobloc with a thermal store to achieve the ultimate comfort at home.

- Fresh water principle: receive domestic hot water on demand while eliminating the risk of contamination and sedimentation
- Optimal domestic hot water performance: the low temperature evolution enables high tapping performance
- > Fit for the future: possibility to integrate with renewable solar energy and other heat sources, e.g. fireplace
- Lightweight and robust build of the unit combined with the cascade principle offers flexible installation options

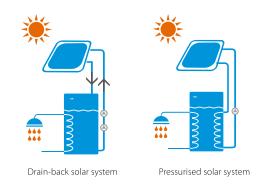
Built for small and large homes, customers can choose between a pressureless and a pressurised hot water system.

#### Efficiency

- > Fit for the future: maximise renewable energy sources
- > Intelligent Heat Storage Management: ensures continuous heating during defrost mode, and uses stored heat for space heating
- > High-quality insulation keeps heat loss to a minimum

#### Reliability

 Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no water loss through the safety valve

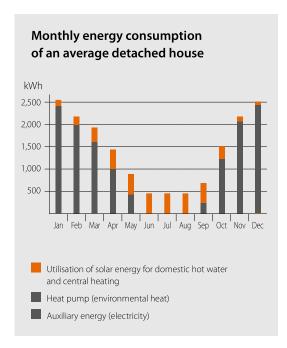


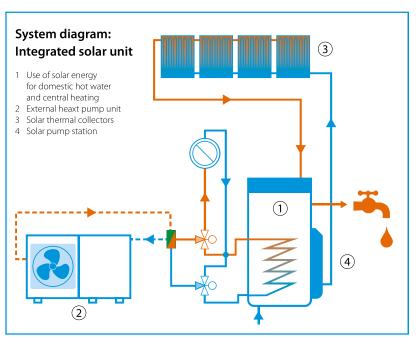
#### Pressureless (drain-back) solar system

- > The solar collectors are only filled with water when sufficient heating is provided by the sun
- The pumps in the control and pump unit switch on briefly and fill the collectors with storage tank water
- After filling, water circulation is maintained by the remaining pump

#### Pressurised solar system

- System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
- > System is pressurised and sealed



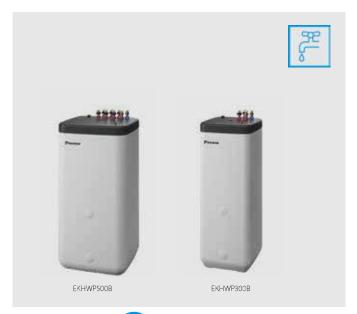




## Daikin Altherma ST Thermal store

#### Plastic domestic hot water tank with solar support

- > The thermal store EKHWP\* is designed to work with Daikin Altherma heat pumps
- > Fresh water principle: receive domestic hot water on demand while eliminating the risk of contamination and sedimentation
- > Optimal domestic hot water performance: the low temperature evolution enables high tapping performance
- > Fit for the future: possibility to integrate with renewable solar energy and other heat sources, e.g. fireplace
- Lightweight and robust build of the unit combined with the cascade principle offers flexible installation options
- > Available in 300 and 500 liters









Accessory			EKHWP	300B	500B	300PB	500PB	54419B			
Casing	Colour			Traffic white (RAL9016) / Dark grey (RAL7011)							
	Material			Impact resistant polypropylene							
Dimensions	Unit	Width	mm	595	790	595	790				
		Depth	mm	615	790	615	790				
		Height	mm	1,646	1,658	1,646	1,658				
Weight	Unit	Empty	kg	53	76	56	82 7				
Tank	Water volume L			294	477	294	477				
	Material					Polypropylene					
	Maximum	Maximum water temperature °C			85						
	Insulation	Heat loss	kWh/24h	1.5	1.7	1.5	1	.7			
	Energy efficiency class			В							
	Standing heat loss W			64	72	64	72				
	Storage volume L			290	393	290	393				
Heat exchanger	Domestic Quantity			1							
	hot water	Tube material		Stainless steel (DIN 1.4404)							
		Face area	m²	5.6	5.8	5.6	5.9	5.8			
		Internal coil volume	L	27.8	28.9	27.8	29	28.9			
		Operating pressure	bar	6							
	Charging	Quantity		1							
		Tube material		Stainless steel (DIN 1.4404)							
		Face area	m²	2.66	3.7	2.66	3.7	1.95			
		Internal coil volume	L	12.9	18.1	12.9	18.1	10			
		Operating pressure	bar	3							
	Auxiliary	Auxiliary Tube material		-	Stainless steel	-	Stainle	ss steel			
	solar				(DIN 1.4404)		(DIN 1.4404)				
	heating	Face area	m²	-	0.76	-	0.76				
		Internal coil volume	L	-	3.9	-	3	.9			
		Operating pressure	bar	-	3	=	:	3			



### **Daikin Altherma ST** Thermal store

#### Plastic domestic hot water tank with solar support

- > The thermal store EKHWC\* is designed to work with a gas/oil boiler
- > The thermal store EKHWD\* is designed to work with boilers as well as with Daikin Altherma High Temperature
- > Fresh water principle: receive domestic hot water on demand while eliminating the risk of contamination and sedimentation
- > Optimal domestic hot water performance: the low temperature evolution enables high tapping performance
- > Fit for the future: possibility to integrate with renewable solar energy and other heat sources, e.g. fireplace
- > Lightweight and robust build of the unit combined with the cascade principle offers flexible installation options
- > Available in 300 or 500 liters









Accessory				EKHWDH 500B	EKHWDB 500B	EKHWCH 300B	EKHWCH 300PB	EKHWC 500B	EKHWCH 500B	EKHWCH 500PB	EKHWCB 500B	EKHWCE 500PB
Casing	Colour			Traffic white (RAL9016) / Dark grey (RAL7011)								
-	Material			Impact resistant polypropylene								
Dimensions	Unit	Width	mm	79	90	595		790				
		Depth	mm	79	90	6	15			790		
Weight	Unit	Empty	kg	73	76	51	53	69	74	79	80	86
Tank	Water volume	<u> </u>	Ĺ	4	477 294				477			
2	Material						P	olypropyle	ne			
	Maximum water temperature °C			85								
	Insulation	Heat loss	kWh/24h	1	.7	1	.5			1.7		
	Energy efficiency class							В				
	Standing heat loss		W	7	72 64			72				
	Storage volume		L	4	77	29	94	477				
Heat exchanger	Domestic hot	ic hot Quantity		1								
3	water	Tube material		Stainless steel (DIN 1.4404)								
		Face area	m²	4.900 3.800 4.900								
		Internal coil volume	L	23	3.8	18	3.6		23.8		25	5.8
		Operating pressure		6								
		Average specifc thermal output	W/K	2,5	80	1,8	390		2,450		2,5	80
	Charging	Quantity		1				-	1			
		Tube material		Stainless steel (DIN 1.4404)			14)	-	Stainless steel (DIN 1.4404)			4)
		Face area	m²	2 -		2	2					
		Internal coil volume	L	1	1		9	-		ç	)	
		Operating pressure	bar			3		-		3	3	
		Average specifc thermal output	W/K	1,0	30	9:	20	-		1,0	30	
	Auxiliary solar	Tube material		-		-		Stainless steel (DIN 1.4404)				
	heating	Face area	m²	-				1				
		Internal coil volume	L	-				4				
		Operating pressure	bar	-				3				
		Average specifc thermal output W/K		-			350					

### Domestic hot water tank

#### Stainless steel domestic **hot water** tank

- > EKHTS-AC: available in 200 and 260 L in stainless steel
- > EKHWS(U)-B: available in 150, 200 and 300 litres in stainless steel
- > EKHWS-B: available for 400V applications
- > EKHWS(U)-D: available in 150, 180, 200, 250 and 300 litres in stainless steel





















Accessory				EKHTS	200AC	260AC			
Casing	Colour				Metallic grey				
	Material				Galvanised steel (precoated sheet metal)				
Dimensions	Unit	Height	Integrated on	mm	2,010	2,285			
		-	indoor unit						
	-	Width		mm	60	00			
		Depth		mm	695				
	-	Height		mm	1,470	1,745			
Weight	Unit	Empty		kg	70	78			
Tank	Water volume			Ĺ	200	260			
	Material				Stainless steel (EN 1.4521)				
~	Maximum water temperature °C			°C	75				
	Insulation Heat loss kWh/2			kWh/24h	12.0	15.0			
	Energy efficiency class				В				
	Standing heat loss V			W	50	63			
	Storage volume L			L	200	260			
Heat exchanger	Quantity				·				
	Tube mater	Tube material			Duplex steel (EN 1.4162)				
	Face area	Face area m <sup>2</sup>			1.560				
	Internal coi	l volume		L	7.5				

Accessory		EKHWS	(U)150B3V3	(U)200B3V3	(U)300B3V3	200B3Z2	300B3Z2		
Casing	Colour		Neutral white						
_	Material		Epoxy-coated mild steel						
Dimensions	Unit Width	mm	580						
	Depth	mm	580						
	Height	mm	900	1,150	1,600	1,150	1,600		
Weight	Unit Empty	kg	37	45	59	45	59		
Tank	Water volume	L	150	200	285	200	285		
	Material		Stainless steel (DIN 1.4521)						
	Maximum water temperature	°C	85						
	Insulation Heat loss	kWh/24h	1.55	1.77	2.19	1.77	2.19		
	Energy efficiency class		C						
	Standing heat loss	W	65	74	91	74	91		
	Storage volume	L	150	200	285	200	285		
Heat exchanger	Quantity		1						
	Tube material		Duplex steel LDX 2101						
Booster heater	Capacity kW		3						
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230 2~/50/400						

Accessory		EKHWS(U)	150D3V3	180D3V3	200D3V3	250D3V3	300D3V3		
Casing	Colour		Neutral white						
	Material		Epoxy coated steel / Epoxy-coated mild steel						
Dimensions	Unit Height Tank	mm	1,000	1,164	1,264	1,535	1,745		
Weight	Unit Empty	kg	45	50	53	58	63		
Tank	Water volume	L	145	174	192	242	292		
	Material		Stainless steel (EN 1.4521)						
	Maximum water temperature	°C	75						
	Insulation Heat loss	kWh/24h	1.1	1.2	1.3	1.4	1.6		
	Energy efficiency class		В						
	Standing heat loss	W	45	50	55	60	68		
	Storage volume	L	145	174	192	242	292		
Heat exchanger	Domestic Quantity		1						
	hot water Tube material		Stainless steel (EN 1.4521)						
	Face area	m²	1.050	1.400		1.800			
	Internal coil volume	L	4.9	6.5		8.2			
	Operating pressure bar		10						
Booster heater	Capacity	kW	3						
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230						