

# Daikin Altherma 3 R ECH<sub>2</sub>O

Floor-standing air-to-water heat pump for **heating, cooling and hot water** with thermal solar support

- › Integrated solar unit, offering top comfort in heating, hot water and cooling
- › Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- › Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- › Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- › Solar support of domestic hot water with pressureless (drain-back) solar system
- › Heat loss is reduced to a minimum thanks to the high quality insulation
- › App control possible for managing heating, hot water and cooling operation
- › Outdoor unit extracts heat from the outdoor air, even at -25°C
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump



Efficiency data				EBSX + ERLA		11P30D + 11DV/W	11P50D + 11DV/W	16P30D + 14DV/W	16P50D + 14DV/W	16P30D + 16DV/W	16P50D + 16DV/W
Space heating	Average climate water outlet 55°C	General	SCOP			3,27		3,26		3,35	
			η <sub>sp</sub> (Seasonal space heating efficiency)			128				131	
			Seasonal space heating eff. class					A++			
Domestic hot water heating	Average climate	General	SCOP			4,72		4,68			
			η <sub>sp</sub> (Seasonal space heating efficiency)			186		184			
			Seasonal space heating eff. class					A+++			
Domestic hot water heating	Average climate	General	Declared load profile			L	XL	L	XL	L	XL
			COP <sub>dhw</sub>			2,73	3,05	2,73	3,05	2,73	3,05
			η <sub>wh</sub> (water heating efficiency)			115	126	115	126	115	126
Water heating energy efficiency class							A+				
Indoor Unit				EBSX		11P30D	11P50D	16P30D	16P50D	16P30D	16P50D
Casing	Colour	Traffic white (RAL9016) / Traffic black (RAL9017)									
	Material	Impact resistant polypropylene									
Dimensions	Unit	HeightxWidthxDepth	mm	1.893x594x680	1.910x792x817	1.893x594x680	1.910x792x817	1.893x594x680	1.910x792x817	1.893x594x680	1.910x792x817
Weight	Unit	kg		93	114	93	114	93	114	93	114
Tank	Water volume	l		294	477	294	477	294	477	294	477
	Maximum water temperature	°C		85							
Operation range (2)	Heating	Ambient	Min.–Max.	°C		-25 ~ 35 (1)					
		Water side	Min.–Max.	°C		18 ~ 60					
	Cooling	Ambient	Min.–Max.	°C		10 ~ 43					
		Water side	Min.–Max.	°C		5 ~ 22					
	Domestic hot water	Ambient	Min.–Max.	°C		-25 ~ 35					
		Water side	Min.–Max.	°C		10 ~ 60					
Sound power level	Nom.	dBA		44,7							
Sound pressure level	Nom.	dBA		36,8							
Outdoor Unit				ERLA		11DV3/W1	14DV3/W1	16DV3/W1			
Dimensions	Unit	HeightxWidthxDepth	mm	870x1.100x460							
Weight	Unit	kg		101							
Compressor	Quantity			1							
	Type	Hermetically sealed swing inverter compressor									
Operation range	Heating	Min.–Max.	°CDB		-25 ~ 35 (1)						
	Cooling	Min.–Max.	°CDB		10 ~ 43						
	Domestic hot water	Min.–Max.	°CDB		-25 ~ 35						
Refrigerant	Type	R-32									
	GWP	675									
	Charge	kg		3,80							
	Charge	TCO <sub>2</sub> Eq		2,57							
	Control	Expansion valve									
LW(A) Sound power level (according to EN14825)					62						
Sound pressure level (at 1 meter)	Nom.			48							
Power supply	Name/Phase/Frequency/Voltage	Hz/V		V3: 1~/50/230   W1: 3~/50/400							
Current	Recommended fuses	A		V3: 32   W1: 16							

(1) For units without a backup heater, the operation range is capped at 25°C outdoor ambient temperature

(2) For more details, please consult the operation range graph in the unit's data book  
This product contains fluorinated greenhouse gases.