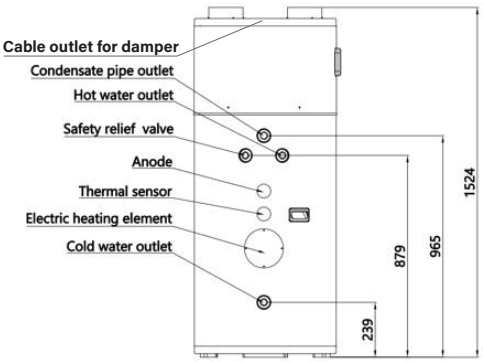
Datasheet

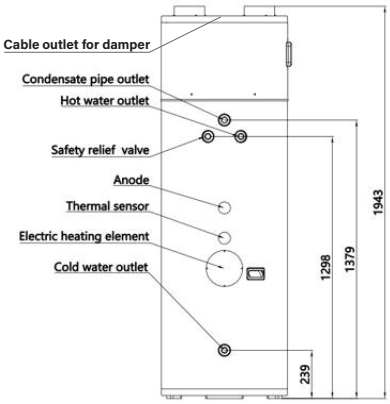
EcoVolt ® EV H2O EAHP

EV H2O DIMENSIONS (MM)

Model EV-H20/180



Model EV-H20/270



Model	Weight(kg)	Dimensions in mm	Power supply
EV-H20/180	83	620×1524	220V-240V/ 50Hz
EV-H20/270	94	620×1943	220V-240V/ 50Hz

Fiche Data & DEAP 4.2 Entry

EV-H2O/180		EV-H2O/270	
ITEM TYPE	HEAT SOURCE	ITEM TYPE	HEAT SOURCE
MODEL	EV-H2O/180_2023	MODEL	EV-H2O/270_2023
HEAT PUMP TYPE	EXHAUST AIR TO WATER	HEAT PUMP TYPE	EXHAUST AIR TO WATER
WATER HEATING STANDARDS	I.S. EN 16147	WATER HEATING STANDARDS	I.S. EN 16147
WATER HEATING EFFICIENCY, ηwh (%)	154.5	WATER HEATING EFFICIENCY, ηwh (%)	168.7
REFERENCE HOT WATER TEMPERATURE (°C)	51.19	REFERENCE HOT WATER TEMPERATURE (°C)	51.43
CAPACITY OF HEAT PUMP (KW)	2.4	CAPACITY OF HEAT PUMP (KW)	2.4
DECLARED PROFILE	L	DECLARED PROFILE	XL
STANDBY HEAT LOSS (KWh/DAY)	0.97	STANDBY HEAT LOSS (KWh/DAY)	1.02
DAILY ELEC. CONSUMPTION (QELEC)	3.11 kWh	DAILY ELEC. CONSUMPTION (QELEC)	4.62 kWh
ANNUAL ELECTRICITY CONSUMPTION (AEC)	663 kWh/annum	ANNUAL ELECTRICITY CONSUMPTION (AEC)	993 kWh/annum
VOLUME OF DHW ACCOUNTED FOR IN TEST (LITRE)	187	VOLUME OF DHW ACCOUNTED FOR IN TEST (LITRE)	270
FUEL TYPE	ELECTRICITY	FUEL TYPE	ELECTRICITY
EFFICIENCY ADJUSTMENT FACTOR	1	EFFICIENCY ADJUSTMENT FACTOR	1
DAILY OPERATION (h)	24	DAILY OPERATION (h)	24
HEAT PUMP TYPE OF DHW	INTEGRAL HOT WATER STORAGE	HEAT PUMP TYPE OF DHW	INTEGRAL HOT WATER STORAGE
BACKUP WATER HEATER FUEL	ELECTRICITY	BACKUP WATER HEATER FUEL	ELECTRICITY
BACKUP WATER HEATER EFFICIENCY (%)	100	BACKUP WATER HEATER EFFICIENCY (%)	100

TECHNICAL SPECIFICATIONS

ECOVOLT MODEL	EV-H20/180	EV-H20/270
POWER SUPPLY	230V/50HZ	
RATED INPUT POWER (COMPRESSOR)	0.57KW	0.57KW
RATED INPUT CURRENT (COMPRESSOR)	2.9A	2.9A
RATED HEATING CAPACITY (COMPRESSOR)	2.4KW	2.4KW
RATED INPUT POWER (IMMERSION)	1.5KW	1.5KW
RATED INPUT CURRENT (IMMERSION)	6.9A	6.9A
MAX CURRENT (COMPRESSOR & IMMERSION)	12.0A	12.0A
REFRIGERANT	R290 (330G)	R290 (330G)
COMPRESSOR	MIDEA	
ERP LABEL	A++	A++
EFFICIENCY ηwh (EN16147)	154.5%	168.7%
COP DHW	3.75	3.81
EXPANSION VALVE	EEV	EEV
WATER TANK CAPACITY	180L	270L
LOSSES PST BY	0.97 kWh/24h	1.02 kWh/24h
INNER TANK MATERIAL	DUPLEX STAINLESS STEEL 2205	
INNER TANK THICKNESS	1.0MM	1.0MM
INNER TANK DIAMETER	Φ 500MM	Φ 500MM
WATER INLET/OUTLET PIPE	G 3/4''/FEMALE	G 3/4''/FEMALE
RATED WATER TANK PRESSURE	8 bar	8 bar
OUTER CASING	RAL 9016	RAL 9016
FAN	VARIABLE	VARIABLE
VENTILATION	VERTICAL DISCHARGE	VERTICAL DISCHARGE
DUCT CONNECTIONS	150MM	150MM
RESISTIVE IMMERSION ELEMENT	1.5KW / DRY HEATER	1.5KW / DRY HEATER
RATED OUTLET WATER TEMPERATURE	55°°C	55°°C
MAX OUTLET WATER TEMPERATURE	70°C	70°C
WORKING RANGE WITH ELECTRIC HEATER	-15°C-43°C	-15°C-43°C
WORKING RANGE WITHOUT ELECTRIC HEATER	-7°C-43°C	-7°C-43°C
ANTI-CORROSION FOR WATER TANK	MAGNESIUM ANODE	MAGNESIUM ANODE
ANTI LEGIONELLA	WATER HEATED UP TO 70°C BY ELECTRIC HEATER	
IP CLASS	IPX1	IPX1
UNPACKED DIMENSION	Φ 620×1620MM	Φ 620×1850MM
PACKED DIMENSION	700×700×1790MM	700×700×2010MM
NET WEIGHT	88KG	102KG
GROSS WEIGHT	106KG	120KG
NOISE @ 1 METER	46 dB	46 dB
VENTILATION RATES	300m3/hr / 83.3l/s	300m3/hr / 83.3l/s

EcoVolt
INNOVATION IN ENERGY
info@ecovolt.ie
+353 (0) 1 524 0387
www.ecovolt.ie
Unit 3C/D Rosemount Park Drive,
Rosemount Business Park,
Dublin 11, Ireland