

DAVEY



DAVEY AquaThermPRO

Model Numbers:
DAT110, DAT140, DAT170,
DAT220, DAT270

GUARANTEE
10 YEARS
Heat Exchanger
and Compressor
1 YEAR Parts and Labour

APPLICATIONS

Ideal for in-ground and above ground swimming pools, spas, swim spas and plunge pools.

DAVEY HEAT PUMP

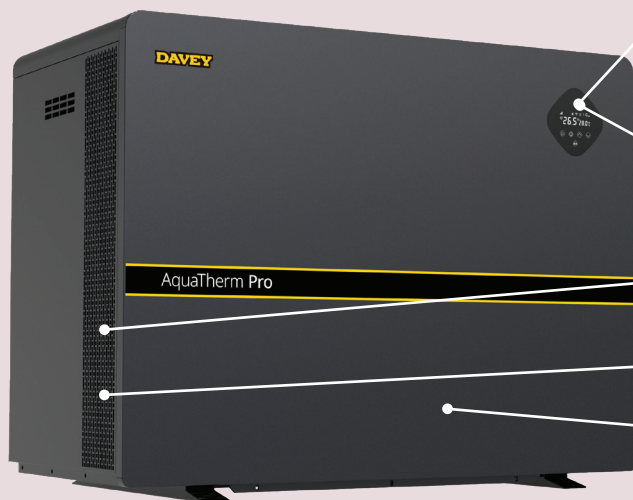
FEATURES & BENEFITS

- **Extended swimming season**, delivers optimal year-round heating and cooling. Built to operate in the coldest weather, down to -15°C, to extend your pool season into winter[#]
- **Energy Efficient**, high COP capable of converting 1kW of electricity up to 15.5kW of heat energy^{##}. This means lower energy consumption and reduced electricity bills.
- **Inverter technology**, with twin rotary compressors and DC inverter fan. This allows the heat pump to seamlessly adjust its power output to match the specific heating needs of your pool, optimising energy consumption and minimising running costs.
- **Quiet operation**, a combination of advanced turbo fan design and three layers of acoustic sound proofing provides a peaceful poolside experience.
- **Powerful heat transfer**, the twisted coil heat exchanger maximises water contact and performance up to 40°C
- **Intuitive control panel**, provides simple touch screen operation for advanced data monitoring, temperature and performance mode settings.
- **3 performance modes**, Turbo, Perfect and Silence modes adjust the heat capacity strength to required conditions for high efficiency and energy savings.
- **Built-in Wi-Fi**, control desired temperature anywhere, anytime through the Davey Heat Pump app.
- **Perfect for small spaces**, space saving side air discharge and rear air intake design allows for installation in tight spaces.
- **Eco-friendly**, R32 refrigerant is ozone friendly and maximises performance.
- **Automatic Defrost**, reverse cycle defrosting
- **Premium Exterior Casing**, anti-corrosion, weatherproof alloy casing.

[#]Provided the correct heat pump sized at -15°C ambient air temperature

^{##}Operating in perfect mode (refer to performance data table).
Reduced costs over operational life.

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Features a **TurboFan** with **InverPad®** design, high efficiency heat exchange rate for better performance. Bladeless fan for quiet operation

Both Heating and Cooling cycles

Inverter technology that allows for up to 15.5 Coefficient Of Performance (COP)

Side discharge vent giving minimal rear clearance for compact installation space

Soft start technology to reduce inrush current

DC twin-rotary compressor

Utilises **R32 gas**

Twisted titanium heat exchange for efficiency

Aluminium alloy casing

Heating up to **40°C** suitable for spa's

Model	DAT110	DAT140	DAT170	DAT220	DAT270
PERFORMANCE DATA					
PERFORMANCE CONDITION: Air 27°C/ Water 27°C/ Humid. 80%					
Turbo Mode Heating Capacity (kW)	11.5	14	17	22.5	26.5
Perfect Mode Heating Capacity (kW)	9.3	10.9	13.5	18	20.6
Perfect mode COP (Coefficient of Performance)	15~7.3	15~7.4	15~7.1	15.5~7.4	15.2~7.2
PERFORMANCE CONDITION: Air 15°C/ Water 26°C/ Humid. 70%					
Turbo Mode Heating Capacity (kW)	7.7	9.3	11.5	15	18
Perfect Mode Heating Capacity (kW)	6.3	7.6	9.2	12.6	14.4
Perfect mode COP (Coefficient of Performance)	7.5~5	7.6~5.1	7.8~5	8.2~5.1	7.9~5.2
PERFORMANCE CONDITION: Air 35°C/ Water 28°C/ Humid. 80%					
Cooling Capacity (kW)	4.6	5.6	6.5	8.1	10.2
TECHNICAL SPECIFICATIONS					
Advised pool volume (m³)*	20-45	30-55	35-65	40-80	50-95
Operational Temperature Range (°C)	Minus 15 to 43°C				
Heating Temperature Range (°C)	18 to 40°C				
Cooling Temperature Range (°C)	12 to 30°C				
Power Supply (V/Phase)	230V / Single Phase / 50hz				
Rated Input Power (kW)	0.24 - 1.79	0.29 - 2.16	0.36 - 2.67	0.45 - 3.33	0.54 - 4.00
Rated Input Power @50% (kW)	0.47	0.59	0.71	0.90	1.06
Rated Current (A)	1.04 - 7.78	1.26 - 9.39	1.57 - 11.63	1.96 - 14.48	2.35 - 17.39
Sound Pressure Level @ 1m	36.3 - 44.5	36.5 - 45.9	39.3 - 46.7	39.5 - 49.8	39.8 - 50.2
Recommended Water Flow (lpm)	33 - 67	50 - 67	67 - 100	100 - 150	133 - 167
Maximum outlet air flow (m³/hr)*	2700	2800	3500	4350	5200
Pressure drop (kPa)	2.6	2.5	4.2	7.2	8.5
Net weight (kg)	66	73	75	91	114

DIMENSIONS (mm)										
Model	A	B	C	D	E	F	G	H	J	K
DAT110	750	656	530	510	450	504	300	96	215	13
DAT140	750	656	530	510	450	504	280	96	215	13
DAT170	840	656	530	510	540	504	350	96	245	13
DAT220	980	756	530	510	680	504	460	96	255	13
DAT270	1135	756	540	520	760	514	460	96	245	13

* Maximum outlet air flow (m³/hr) reference only

**Advised pool volumes apply to residential pools, using Isothermal pool covers during the summer season.

Ideal operating temperatures between 15 - 25°C.

The AquaTherm PRO heat pump performance cannot be assured outside of the operational temperature range as stated above. Please take into consideration the individual conditions of your installation.