F series Heat Pump

DAVEY by NIRVANA

ONE OF THE INDUSTRY'S BEST PERFORMERS

APPLICATION

Ideal for in-ground and above ground swimming pools, spas, swim spas, plunge pools and light commercial applications

residential

HIGH PERFORMANCE POOL & SPA HEAT PUMP

- **Heat Exchanger**
  Our unique double coil heat exchanger is manufactured out of titanium to produce optimal heat transfer while resisting corrosion and erosion. It is excellent for all common pool chemical systems including salt water, mineral salt and chlorine pools
- **Compressor**
  Scroll compressor technology provides the Davey by Nirvana with unparalleled efficiency along with quiet, sustainable and proven reliability
- **Thermostatic Expansion Valve**
  The thermostatic valve regulates the supply of refrigerant to the evaporator based on weather conditions to maximise performance
- **Refrigerant Filter Dryer**
  Filters humidity and protects the refrigeration circuit for long term durability
- Combine Nirvana heat pump with the Davey Silensor pool pump to maximise energy efficiency

Davey by Nirvana
Pool & Spa Heat Pump

Swept wing fan blades designed to reduce noise

Ultra-resistant composite cabinet provides durability and easy care

Oversized blue fin protected evaporator for better performance

R410A Refrigerant environmentally friendly, clean and efficient

Electronic control board easy to use

Corrosion inhibiting treatments inside the unit and electronic box

Auto defrost, electronic and intelligent

PERFORMANCE DATA*	Model	27°C | 80% | 27°C**		27°C | 63% | 27°C**		10°C | 63% | 27°C**		Combined with a Davey Silensor or ProMaster pump†	
		kW	COP	kW	COP	kW	COP	kW	COP
	DN1-50	14	6.4	12	6.0	9	4.3	14	7.1
	DN1-80	22	7.0	20	6.4	14.5	4.6	22	7.0

* Reference only, results may change based on ambient air temperatures the use of a pool blanket, location and region of the installation
** Rated in accordance to AHRI standard 1160: ambient air temperature (°C)| humidity (%) | pool water temperature (°C)
† Rated outside the scope of AHRI 1160 using a Davey swimming pool pump Silensor SLL300, ProMaster PM200SV or SilensorPro SP200SV on speed 8, and the ProMaster PM400PV or SilensorPro SP400PV on speed 6 at 27°C | 63% | 27°C conditions with 250lpm water flow

COP = Co-efficiency of Performance

DIMENSIONS	Model	Height (mm)	Width (mm)	Length (mm)	Weight (kg)	Water Connections
	DN1-50	890	890	840	86	40mm
	DN1-80	1040	890	840	110	

TECHNICAL DATA	Heat Exchanger	Control Board	Defrost Mode	Compressor Type	Cabinet	Refrigerant
	Titanium Double Coil	Digital	Passive	Scroll	Fibreglass Composite	R410A

WARRANTY	
Component	Coverage
Labor	1 year
Parts	3 years
Compressor	5 years
Titanium coil	10 years
Cabinet	15 years limited

> 28kW and 35kW models are available in the Davey FC Series Heat Pump Range

ELECTRICAL DATA		
Model	DN1-50	DN1-80
Voltage (V AC)	240	
Frequency (Hz)	50	
Phase	Single	
Compressor starting current (A)	67.0	126.0
Compressor operation intensity (A)	12.2	20.2
Fan operation intensity	0.8	
Current total (A)	13.0	21.0
Minimum Amp Circuit (A)	20.5	31.5
Maximum Amp Circuit (A)	30.0	40.0

IMPORTANT NOTES

Energy efficiency at low temperatures is the most important factor to consider because that's when the pool needs the most heat and when the heat pump will operate for the longest amount of time. The Nirvana heat pump has the highest ranked units according to AHRI at low ambient temperatures, which will translate to the lowest total operating costs.

davey.com.au | daveynz.co.nz | daveyeurope.eu | daveyusa.com

DAVEY

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DWP0949-3/0719