

FC/PV/PVT



FC/PV/PVT HEAT PUMPS
HIGHEST EFFICIENCIES IN THE INDUSTRY
SMART FAN TECHNOLOGY
HIGH-PERFORMANCE COMPONENTS



Warranty - Canada
5 years - Labour
10 years - Parts



Quiet



**Designed &
manufactured in Quebec**



**Energy
efficient**



PERFORMANCE AND QUALITY

SMART FAN TECHNOLOGY



Wifi
(Optional)



Environmentally
friendly



Easy to use



Variable power



Smart fan technology

FEATURES AND BENEFITS

HEAVY-DUTY COMPOSITE CASE
Durable and easy to maintain.

SWEPT WING FAN BLADES
Designed to reduce noise.

OVERSIZED BLUE FIN EVAPORATORS
For a better performance.

ELECTRONIC TIMERS
For more efficient management of your electrical consumption.

ACOUSTIC COMPRESSOR COVERS
Protect compressor and reduce noise
(FC85 to FC145 and PV series.)

R410A REFRIGERANT
Clean and efficient

SELF - DIAGNOSING DIGITAL CONTROL
Easy to use.

PASSIVE DEFROST
Electronic and smart

HEAT EXCHANGER
Covered with an insulating sheath.

ANTI-CORROSION COATINGS

WIFI (OPTIONAL ADD-ON MODULE)
application available on the App Store and Play Store
to control your heat pump and maintain the perfect
temperature at all times.

HIGH-PERFORMANCE COMPONENTS

**VARIABLE-SPEED VENTILATION
SMART FAN TECHNOLOGY***
Smart mode (maximizes COP)
Quiet mode (reduces noise)
Boost mode (maximizes BTU)

PV / PVT SERIES (VARIABLE CAPACITY)

Variable-capacity scroll compressors
PV80 and PV105;

Stage 1: 67 %

Stage 2: 100 %

Tandem scroll compressor
PVT175;

Stage 1: 50 %

Stage 2: 100 %

HEAT EXCHANGER

The canister type heat exchanger is fitted with a top-grade titanium double coil, ensuring optimum heat exchange for the Nirvana pump. It is resistant to corrosion and erosion from the products used for water conditioning. It is just as effective for pools equipped with salt systems.

THE COMPRESSOR

The Nirvana's scroll technology compressors deliver unrivalled efficiency, quiet operation and proven durability and reliability.
PV series = single 2 stage compressor
PVT series = tandem (dual) compressors

THERMOSTATIC EXPANSION VALVE

The thermostatic valve regulates the supply of refrigerant to the evaporator according to climatic conditions, for maximum energy efficiency.

*SMART FAN technology applies to models FC100, FC120, FC145, PV80, PV105, PVT175

ALL OF OUR UNITS ARE TESTED AND INSPECTED BY AN HVAC SPECIALIST BEFORE SHIPMENT

HEAT PUMP DATA SHEET

FC SERIES SMART FAN TECHNOLOGY

MODEL FC SERIES		FC55	FC70	FC85	FC100	FC120	FC145
(80/80/80 – AHRI) ¹	BTU / COP	56 000 / 7.0	71 000 / 6.8	84 000 / 6.8	95 000 / 6.4	120 000 / 6.6	145 000 / 6.5
(80/63/80 – AHRI) ¹	BTU / COP	53 000 / 6.8	67 000 / 6.5	80 000 / 6.5	91 000 / 6.2	112 000 / 6.3	134 000 / 6.2
(50/63/80 – AHRI) ¹	BTU / COP	37 000 / 4.6	46 000 / 4.5	55 000 / 4.6	63 000 / 4.3	78 000 / 4.4	95 000 / 4.3
REFRIGERANT		R410A					
MINIMUM / MAXIMUM BREAKER (A)		20/30	30/30	30/40	40/50	40/50	50/60
AMPS (A)		10.3	13.3	15.5	17.5	23.7	27.5
DECIBEL AT 10 METERS		42	42	42	43	43	45
VENTILATION		26" 1 SPEED			26" VARIABLE SPEED SMART FAN		
HEAT EXCHANGER		TWISTED TITANIUM DOUBLE COIL CANISTER					TWISTED TITANIUM QUAD COIL CANISTER
DEFROST		PASSIVE (3°C)					
CONTROL BOARD		DIGITAL TOUCH 4 LINES X 20 CHARACTERS					
COMPRESSOR TYPE		SCROLL					
VOLTAGE		240V / 60HZ / 1 PHASE					
CABINET		FIBREGLASS-REINFORCED, INJECTION-MOULDED POLYPROPYLENE COMPOSITE					
MINIMUM / MAXIMUM WATER FLOW (GPM)		20-80	26-80	32-80	40-80	40-80	40-80
DIMENSIONS IN INCHES (W X L X H)		39 X 37 X 30	39 X 37 X 30	39 X 37 X 34	39 X 37 X 34	39 X 37 X 38	39 X 37 X 40
WEIGHT (LBS)		191	222	241	245	250	285
WATER CONNECTION		2" QUICK CONNECT FITTINGS (INCLUDED)					
POOL WATER CAPACITY (L) June to August		UP TO 55 000	UP TO 70 000	UP TO 85 000	UP TO 100 000	UP TO 120 000	UP TO 145 000
POOL WATER CAPACITY (L) May to September		UP TO 42 000	UP TO 54 000	UP TO 65 000	UP TO 72 000	UP TO 90 000	UP TO 110 000
POOL DIMENSIONS – ABOVE GROUND		15'-18'-21'	21'-24'	24'-27'	27'	N/A	N/A
POOL DIMENSIONS – INGROUND		10' X 20' 12' X 24' 15' X 30'	12' X 24' 14' X 28' 15' X 30'	14' X 28' 16' X 32'	16' X 32' 18' X 32'	18' X 32' 18' X 36'	18' X 36' 20' X 40'

ENERGY EFFICIENCY AT LOW TEMPERATURES IS THE MOST IMPORTANT THING TO CONSIDER

NIRVANA heat pumps, ranked AHRI #1 for low-temperature efficiency, offer the lowest operating costs in the industry. The coefficient of performance (COP) measures their ability to extract energy from the air and transfer it to the pool water, and a high COP guarantees lower heating costs. Certify your smart purchase with AHRI-validated performances at www.AHRINET.org.

¹ Certified according to AHRI 1160: Ambient temperature (°F) / Relative humidity (%) / At the water temperature (°F). With a water flow rate of 0.45 GPM per 1,000 BTU at the 80/63/80.

HEAT PUMP DATA SHEET

PV / PVT SERIES

B= Low capacity
H= High capacity

MODEL PV/PVT SERIES		PV80/B	PV80/H	PV105/B	PV105/H	PVT175/B	PVT175/H
(80/80/80 – AHRI) ¹	BTU / COP	59 000 / 9.4	77 000 / 7.1	84 000 / 8.5	105 000 / 6.7	95 000 / 8.0	175 000 / 6.4
(80/63/80 – AHRI) ¹	BTU / COP	55 000 / 9.0	71 000 / 6.9	77 000 / 8.0	99 000 / 6.5	90 000 / 7.6	166 000 / 6.2
(50/63/80 – AHRI) ¹	BTU / COP	39 000 / 5.4	51 000 / 4.8	52 000 / 5.2	68 000 / 4.5	65 000 / 5.6	114 000 / 4.2
REFRIGERANT		R410A	R410A	R410A	R410A	R410A	R410A
MINIMUM / MAXIMUM BREAKER (A)		30/30	30/30	40/50	40/50	60	60
AMPS (A)		8.7	13.5	14.2	19.1	15.9	35.6
DECIBEL AT 10 METERS		38	42	39	43	43	45
VENTILATION		26" VARIABLE SPEED SMART FAN					
HEAT EXCHANGER		TWISTED TITANIUM DOUBLE COIL CANISTER				TWISTED TITANIUM QUAD COIL CANISTER	
DEFROST		PASSIVE (3°C)					
CONTROL BOARD		DIGITAL TOUCH 4 LINES X 20 CHARACTERS					
COMPRESSOR TYPE		VARIABLE CAPACITY SCROLL				TANDEM SCROLL	
VOLTAGE		240V / 60HZ / 1 PHASE					
CABINET		FIBREGLASS-REINFORCED, INJECTION-MOLDED POLYPROPYLENE COMPOSITE					
MINIMUM / MAXIMUM WATER FLOW (GPM)		26-80	26-80	40-80	40-80	50-100	50-100
DIMENSIONS IN INCHES (W X L X H)		39 X 37 X 34	39 X 37 X 34	39 X 37 X 38	39 X 37 X 38	39 X 37 X 45	39 X 37 X 45
WEIGHT (LBS)		241	241	245	245	395	395
WATER CONNECTION		2" QUICK CONNECT FITTINGS (INCLUDED)					
POOL WATER CAPACITY (L) June to August		UP TO 80 000	UP TO 80 000	UP TO 105 000	UP TO 105 000	UP TO 175 000	UP TO 175 000
POOL WATER CAPACITY (L) May to September		UP TO 55 000	UP TO 55 000	UP TO 78 000	UP TO 78 000	UP TO 125 000	UP TO 125 000
POOL DIMENSIONS – ABOVE GROUND		21'-24'	21'-24'	27'	27'	N/A	N/A
POOL DIMENSIONS – INGROUND		14' X 28' 16' X 32'	14' X 28' 16' X 32'	16' X 32' 18' X 32'	16' X 32' 18' X 32'	20' X 40' 24' X 44'	20' X 40' 24' X 44'

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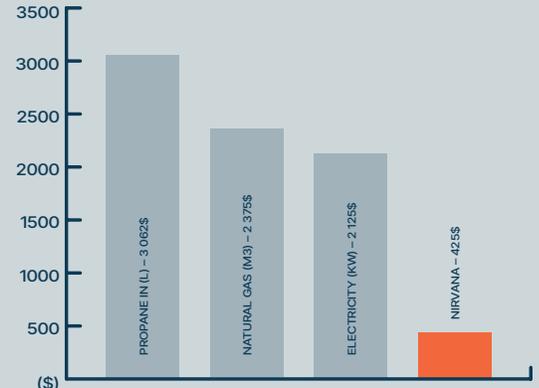
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NIRVANA WARRANTIES

COMPONENTS	COVERAGE
LABOUR	5 YEARS
PARTS	10 YEARS
TITANIUM COIL	10 YEARS LIMITED
CABINET	15 YEARS LIMITED

HEATING COSTS COMPARISON



Based on the average price of energy (\$0.09 / KW/h) in Quebec, (2023).
Conditions: heating of a 12 x 24 pool at 80° F (27° C), from May to September.

*NIRVANA recommends the use of a liquid or conventional solar blanket, for greater energy efficiency.

Information for reference only, results may vary depending on region, ambient temperature and use of solar blanket.

