HIGH-PERFORMANCE
COMPONENTS

NIRVANA

NIRVANAHP.COM

FC / PV / PVT HEAT PUMPS

SMART FAN TECHNOLOGY

HIGHEST EFFICIENCIES IN THE INDUSTRY

AHRI CERTIFIED®
www.ahridirectory.org
Heat Pump Pool Heaters
AHRI Standard 1160

Warranty – Canada
5 years – Labour
10 years – Parts

Quiet

Designed & manufactured in Canada

Energy efficient

ACPQ

CSA® C US

PERFORMANCE AND QUALITY

SMART FAN TECHNOLOGY

Wi-Fi / RS485

Environmentally friendly

Easy to use digital touch display

Variable capacity

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 electricital consumption.

ACOUSTIC COMPRESSOR COVERS
Protects the compressor and reduces noise (except on FC60 and FC75 models).

R410A REFRIGERANT
Clean and efficient.

SELF-DIAGNOSING DIGITAL TOUCH CONTROL
Easy to use.

PASSIVE DEFROST
Electronic and smart.

HEAT EXCHANGER
Covered with an insulating sheath.

ANTI-CORROSION COATINGS

Wi-Fi
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 PV85 and PV110	Stage 1: 67 %
	Stage 2 : 100 %
Tandem scroll compressor PVT175	Stage 1: 50 %
	Stage 2 : 100 %

HEAT EXCHANGER
The heat exchanger is equipped with a top-grade twisted titanium double coil, ensuring optimal heat transfer for Nirvana heat pumps. This material is resistant to corrosion and erosion caused by water treatment products. It is equally 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 expansion valve regulates the flow of refrigerant to the evaporator according to operating conditions, ensuring optimal energy efficiency.

*SMART FAN technology applies to models FC105, FC125, FC150, PV85, PV110, PVT175

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

HEAT PUMPS DATA SHEET

FC SERIES

MODEL FC SERIES		FC60	FC75	FC90	FC105	FC125	FC150
80/80/80 – AHRI[1]	BTU / COP	56 000 / 7.0	71 000 / 6.8	84 000 / 6.8	100 000 / 6.5	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	95 000 / 6.3	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	65 000 / 4.4	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" SINGLE SPEED FAN			26'' VARIABLE SPEED SMART FAN		
HEAT EXCHANGER		TWISTED TITANIUM DOUBLE COIL					TWISTED TITANIUM QUAD COIL
DEFROST		PASSIVE (DOWN TO 3°C)					
CONTROL BOARD		4 LINES X 20 CHARACTERS LCD DISPLAY WITH TOUCH BUTTONS					
COMPRESSOR TYPE		SCROLL					
VOLTAGE		240V / 60HZ / 1 PHASE					
CABINET		FIBERGLASS-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	270
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 45 000	UP TO 58 000	UP TO 72 000	UP TO 84 000	UP TO 102 000	UP TO 125 000
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'

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. Pool dimensions listed for reference only. Results may vary based on region, ambient air temperature, and use of a solar blanket.

HEAT PUMPS DATA SHEET

PV / PVT SERIES

ECO MODE = Low capacity
SMART MODE = High capacity

MODEL PV/PVT SERIES		PV85 (ECO MODE)	PV85 (SMART MODE)	PV110 (ECO MODE)	PV110 (SMART MODE)	PVT175 (ECO MODE)	PVT175 (SMART MODE)
80/80/80 – AHRI[1]	BTU / COP	62 000 / 10.6	77 000 / 7.1	88 000 / 10.2	105 000 / 6.7	99 000 / 9.5	175 000 / 6.4
80/63/80 – AHRI[1]	BTU / COP	58 000 / 9.8	71 000 / 6.9	81 000 / 9.7	99 000 / 6.5	94 000 / 9.2	166 000 / 6.2
50/63/80 – AHRI[1]	BTU / COP	42 000 / 6.8	51 000 / 4.8	56 000 / 6.7	68 000 / 4.5	68 000 / 6.2	114 000 / 4.2
REFRIGERANT		R410A					
MINIMUM / MAXIMUM BREAKER (A)		30/30		40/50		60/70	
AMPS (A)		8.7	13.5	14.2	19.1	15.9	35.6
DECIBELS AT 10 METERS		38	42	39	43	43	45
VENTILATION		26'' VARIABLE SPEED SMART FAN					
HEAT EXCHANGER		TWISTED TITANIUM DOUBLE COIL				TWISTED TITANIUM QUAD COIL	
DEFROST		PASSIVE 2 STAGE (3°C)					
CONTROL BOARD		4 LINES X 20 CHARACTERS LCD DISPLAY WITH TOUCH BUTTONS					
COMPRESSOR TYPE		VARIABLE-CAPACITY SCROLL				TANDEM SCROLL	
VOLTAGE		240V / 60HZ / 1 PHASE					
CABINET		FIBREGLASS-REINFORCED, INJECTION-MOULDED POLYPROPYLENE COMPOSITE					
MINIMUM / MAXIMUM WATER FLOW (GPM)		26-80		40-80		50-100	
DIMENSIONS IN INCHES (W x L x H)		39 X 37 X 34		39 X 37 X 38		39 X 37 X 45	
WEIGHT (LBS)		241		245		395	
WATER CONNECTION		2" QUICK-CONNECT FITTINGS (INCLUDED)					
POOL WATER CAPACITY (L) June to August		UP TO 80 000		UP TO 105 000		UP TO 175 000	
POOL WATER CAPACITY (L) May to September		UP TO 65 000		UP TO 85 000		UP TO 145 000	
POOL DIMENSIONS – ABOVE GROUND		21'-24'		27'		N/A	
POOL DIMENSIONS – INGROUND		14' X 28' 16' X 32'		16' X 32' 18' X 32'		20' X 40' 24' X 44'	

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. Pool dimensions listed for reference only. Results may vary based on region, ambient air temperature, and use of a solar blanket.

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

NIRVANA heat pumps are engineered to deliver the best performance and build quality in their categories. **MORE PERFORMANCE = LESS COST** — day after day, year after year — keeping your pool warm and enjoyable throughout the entire season. **NIRVANA** offers the **highest-performing units according to AHRI for low-temperature efficiency**, which translates into some of the **lowest total cost of ownership in the industry**.

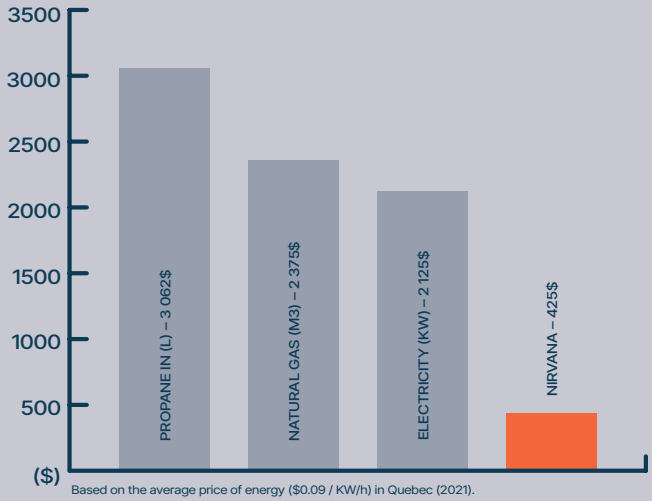
For more information, visit www.ahrinet.org
The **Coefficient of Performance (COP)** measures how effectively a heat pump transfers heat from the air into the pool water. Higher COP values result in lower operating costs. **AHRI certification** ensures that the unit's performance has been independently tested and validated.

BEST WARRANTY

NIRVANA WARRANTIES

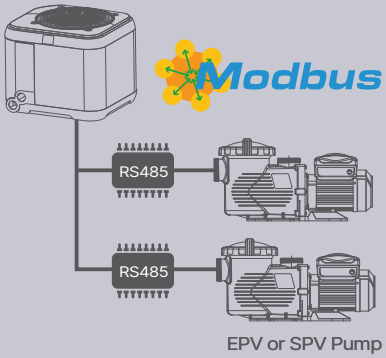
COMPONENTS	COVERAGE
LABOUR	5 YEARS
PARTS	10 YEARS
TITANIUM COIL	10 YEARS LIMITED
CABINET	15 YEARS LIMITED

HEATING COSTS COMPARISON



Based on the average price of energy ($0.09 / KW/h) in Quebec (2021).
Conditions: heating of a 12 x 24 pool at 80° F (27° C), from May to September.

*NIRVANA recommends using a liquid or conventional solar blanket, especially in colder weather, to improve energy efficiency.



EPV or SPV Pump

nirvanahp.com

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