



# HEAT PUMP

*Eco Friendly Heating & Cooling for Cleaner Tomorrow*







## FEATURES



WiFi Enabled



Reduced CO2 emission



Outdoor weather proof cabinet



Dual pressure protection



Modbus Communication



Phase failure protection



Advanced control unit



Built-in freeze protection

## PRECISION. RELIABILITY. EFFICIENCY.



### EXPERTISE & QUALITY

Leverage our team's regional experience and trust in high-performance solutions



### OPTIMIZED PERFORMANCE

Achieve precise hot and cold water control with integrated, energy-efficient systems tailored for demanding climates.



### SOLAR INTEGRATION READY

Our heat pump systems can seamlessly integrate with existing solar water heaters to maximize energy savings.



### SUSTAINABLE SAVINGS

Cut operational costs, reduce energy consumption, and contribute to environmental sustainability through low-carbon heating and cooling.



### SMART & TAILORED SOLUTIONS

Enjoy fully customized, intelligently managed systems from design to implementation-meeting your unique application needs.



### SMART & TAILORED SOLUTIONS

Rely on proactive service and ongoing support from a team dedicated to your long-term success.

## TECHNICAL PARAMETERS

Model	Neo-R4	Neo-R6	Neo-R8.2
Heating Capacity			
Rated Heating Capacity (KW)	4	6	8.8
Rated Power Input (KW)	1	1.6	2.2
COP	4	4	4
Input Current (A)	4.5	6.8	10
Specifications			
Power Supply	230V 1Ph 50Hz AC		
Evaporator	Copper Coil with Aluminium Fins		
Compressor Type	Rotary		
Heat Exchanger	Coil in shell		
Expansion Valve	Thermostatic expansion valve		
Fan Type	Axial Suction Fan		
Fan Direction	Vertical		
Fan Quantity	1		
Circulation Pump	230V 0.4Hp (In Built)		
Controller	In Built		
Modbus Communication	Yes (Optional)		
Wifi Communication	Yes (Optional)		
Refrigerant	R417a		
Ambient Temperature(°C)	(-)10°C to 50°C		
Maximum Temperature(°C)	55°C to 70°C		
Protections	High Pressure   Low Pressure   Over Load Protection   Antifreeze   Overload   Dry Run Protection		
Enclosure	Powder Coated Galvanized Iron		
Connection Size (In & Out)(Inches)	0.45		
Color	RAL 7035		
Noise(dB)	≤56	≤56	≤57
Application	Outdoor		
Dimension (mm)	H	610	610
	W	860	860
	L	550	550
Net Weight in kg (Approx.)	68	75	98

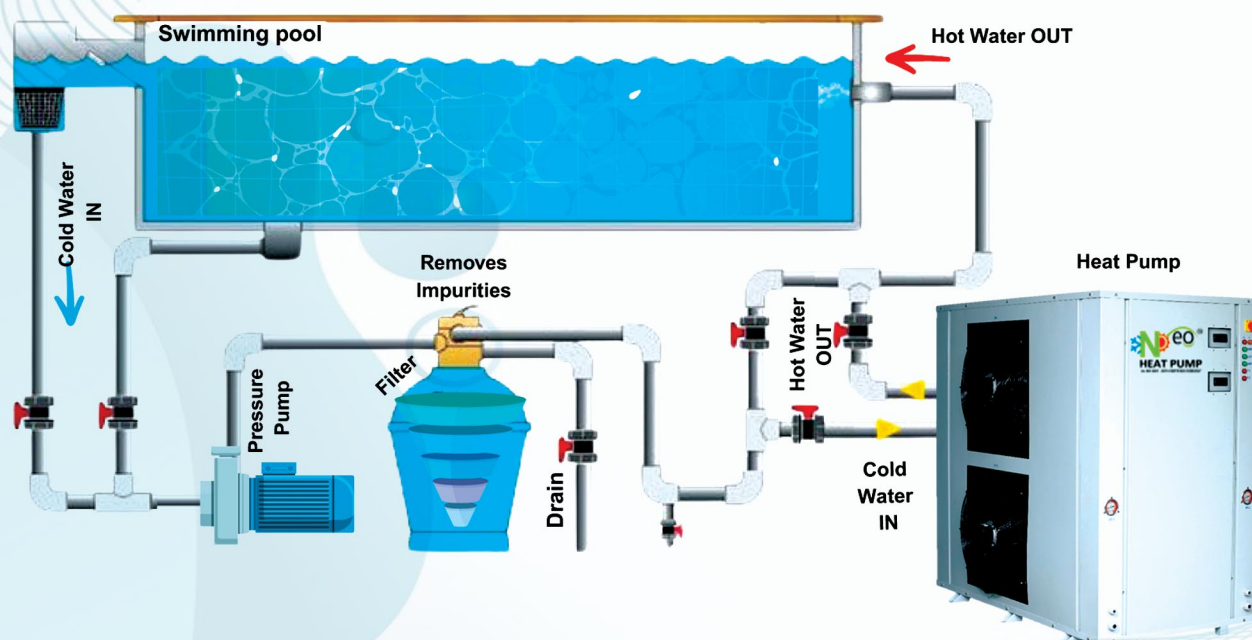
## KEY HIGHLIGHTS

- ✓ Comfort & Convenience
- ✓ 24x7 Hot / Cold water service round the clock
- ✓ Eco friendly
- ✓ Fully automatic
- ✓ No human intervention



## TECHNICAL PARAMETERS

Model	Neo-P13.5	Neo-P18	Neo-P27	Neo-P45	Neo-P54	Neo-P90	Neo-P108	Neo-P162	Neo-P216
Heating Capacity									
Rated Heating Capacity (KW)	13.5	18	27	45	54	90	108	162	216
Rated Power Input (KW)	2.4	3.5	5	7.5	10	15	20	30	40
COP	5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Input Current (A)	11	5.6	8.5	12	16	24	32	48	64
Cooling Capacity									
Rated Cooling Capacity (KW)	8.2	10.5	17.5	26.37	35	52.5	70	105.5	140
Rated Power Input (KW)	2.4	3.5	5	7.5	10	15	20	30	40
EER	3.4	3	3.5	3.5	3.5	3.4	3.5	3.5	3.5
Input Current (A)	3.7	9.2	12.6	16.8	25	36	38	48	56
Specifications									
Power Supply	400V 3PH 50Hz AC								
Evaporator	Copper Coil Aluminium Fins								
Compressor Type	Scroll Compressor								
Heat Exchanger Type	Coaxial Titanium Heat Exchanger								
Expansion Valve	Thermostatic Expansion Valve								
Fan Type	Axial Suction Fan								
Fan Quantity	1	1	1	2	2	4	4	8	12
Fan Direction	Vertical								
Controller	Yes								
Modbus Communication	Yes								
Wifi Communication	Yes (Optional)								
Refrigerant	R407c/R417a								
Ambient Temperature (°C)	(-10°C to 52°C								
Maximum Temperature (°C)	28°C to 32°C								
Protections	High & Low Pressure   High Temperature   High T (Low Flow)   Antifreeze   Overload   Phase Failure   Phase Reversal   Dry Run Protection								
Enclosure	Powder Coated Galvanized Iron								
Connection Size(in&Out) (Inches)	1.5								
Color	RAL 7035								
Noise (dB)	≤54	≤56	≤58	≤58	≤60	≤65	≤71	≤75	≤75
Water Flow Volume (m3/h)	4	4.5	6	13	25	33	42	51	51
Application	Outdoor								
Dimensions(mm)	H	610	720	780	780	1460	1460	1700	1930
	W	550	630	670	720	935	935	1350	1600
	L	860	860	1020	1020	1560	1560	1950	2100
Net Weight in kg (Approx.)	110	135	145	195	265	320	360	410	470



## TECHNICAL PARAMETERS

Model		Neo-P13.5	Neo-P18	Neo-P27	Neo-P45	Neo-P54	Neo-P90
		Heating Capacity					
Rated Heating Capacity (KW)		8.8	12	22	30	44	60
Rated Power Input (KW)		2.2	3	5.5	7.5	11	15
COP		4	4	4	4	4	4
Input Current (A)		3.7	5	9.28	12.6	16.88	25
Rated Hot Water Recovery Rate (l/h)		188	309	616	925	1228	1534
Rated Hot Water Output Temp (°C)		60°C					
Max. Hot Water Output Temp (°C)		70°C to 70°C					
		Specification					
Power Supply		400V 3PH 50Hz AC					
Evaporator		Copper Coil With Aluminium fins					
Compressor Type		Scroll Compressor					
User Side Heat Exchanger	Type	Coaxial Heat Exchanger					
	Water Flow (m3/h)@ΔT=3	2.3	3.8	7.5	10.3	15.2	18.3
	Water Flow (m3/h)@ΔT=5	1.4	2.3	4.5	6.5	9.1	11
	Water Pressure Drop (kpa)	≤30	≤30	≤40	≤40	≤50	≤50
Heat Source Side Heat Exchanger	Type	Shell and Tube Heat Exchanger					
	Water Flow (m3/h)@ΔT=3	1.8	2.9	5.7	8	11.3	13.7
	Water Flow (m3/h)@ΔT=5	1	1.7	3.4	4.8	6.5	8.2
	Water Pressure Drop (kpa)	≤30	≤30	≤40	≤40	≤50	≤50
Expansion Valve		Thermostatic Expansion Valve / Electronic Expansion Valve					
Fan Type		Axial Suction Fan					
Fan Quantity		1	1	2	2	4	4
Fan Direction		Vertical					
Controller		Yes					
Modbus Communication		Yes					
Wifi Communication		Yes(Optional)					
Refrigerant		R-134a					
Ambient Temperature(°C)		(-)10°C to 52°C					
Maximum Temperature(°C)		70°C to 80°C					
Protections		High & Low Pressure   High Temperature   HighΔT(Low Flow)   Antifreeze   Overload   Phase Failure   Phase Reversal   Dry Run Protection					
Starter		Hard Starter (Inverter) / Soft Start (Non- Inverter)					
Enclosure		Powder Coated Galvanized Iron					
Connection Size (In & Out) (Inches)		1					
Color		RAL 7035					
Water Flow Volume (m3/h)		1.5	2	3.9	5	7.5	10
Noise(dB)		≤53	≤56	≤60	≤60	≤63	≤63
Application		Outdoor					
Dimentions(mm)	H	610	720	780	780	1460	1460
	W	550	630	670	720	935	935
	L	860	860	1020	1020	1560	1560
Net Weight in kg (Approx.)		98	120	145	165	300	320



Diesel



Gas



Solar + Electric Backup



Commercial electrical heater



70-80% energy savings lower your energy/bills



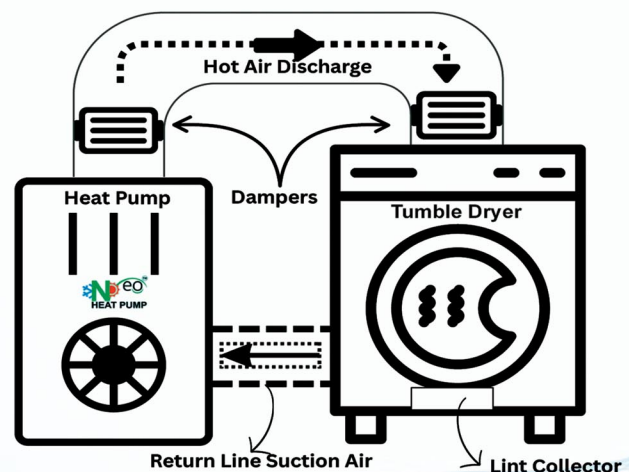


## TECHNICAL PARAMETERS

Model	Neo-P13.5	Neo-P18	Neo-P27	Neo-P45	Neo-P54
Heating Capacity					
Rated Heating Capacity(KW)	15	20	24	32	40
Rated Power Input(KW)	3.5	5	6	8	10
Load Capacity(kg)	10-15	30	30	50	50
COP	4	4	4	4	4
Time (min)	60	60	45	60	45
Input Current (A)	6.5	9	10.5	12.5	16.8
Specifications					
Power Supply	400V 3Ph 50Hz AC				
Evaporator	Copper Coil With Aluminium Fins				
Compressor Type	Scroll Type				
Heat Exchanger	Copper Coil With Aluminium Fins				
Expansion Valve	Thermostatic Expansion Valve				
Fan Type	Axial Suction Fan				
Fan Quantity	2				
Fan Direction	Vertical Hot Air, Horizontal Cold Air				
Blowing	Vertical (Ducting Type - Top Flow To Tumble Dryer)				
Hot Air Circulation Axial Fan Diameter (mm)	350	450	500	650	750
Evaporator Fan Diameter(mm)	250	350	350	500	500
Controller	Yes				
Modbus Communication	Yes				
Wifi Communication	Yes(Optional)				
Refrigerant	R134a				
Ambient Temperature (°C)	(-)10°C to 52°C				
Max. Temperature (°C)	80	80	80	80	80
Return Temperature (°C)	55	55	55	55	55
Protections	High & Low Pressure   High Temperature   HighΔT(Low Flow)   Antifreeze   Overload   Phase Failure   Phase Reversal   Dry Run Protection				
Starter	DOL Strength With Fixed Speed				
Enclosure	Powder Coated Galvanized Iron				
Color	RAL 7035				
Noise	≤57	≤57	≤57	≤65	≤70
Inlet Duct Diameter (mm)	350	450	500	650	750
Outlet Duct Diameter (mm)	350	450	500	650	750
Air Flow Volume (CFM)	150	170	170	230	230
Application	Indoor				
Dimensions (mm)	H	780	1180	1180	1180
	W	720	680	680	680
	L	1020	1800	1800	1800
Net Weight in kg (Approx)	145	300	300	300	300

## KEY HIGHLIGHTS

- ✓ Preservation of Colors
- ✓ Reduced shrinkage
- ✓ Reduced wrinkling
- ✓ Eco Friendly
- ✓ Energy Efficient
- ✓ Lower Utility Bills
- ✓ Higher Safety
- ✓ Reduced Carbon Footprint



## NEO - MAJOR PROJECTS

**JSW Steel**

**NATIONAL LAW SCHOOL  
OF INDIA UNIVERSITY**  
BENGALURU

**RAMAIAH**  
Memorial Hospital

**Sun-n-Sand**  
MUMBAI

**THE ART OF LIVING**  
INTERNATIONAL CENTER  
BENGALURU

**VIVANTA**  
HOTELS & RESORTS  
BY TAJ

**MangoMist**  
resorts

**KLE Technological University**  
Creating Value  
Leveraging Knowledge  
KLE TECH 2002  
A U Government Engineering & Technology College Surathkal, Hubli - India

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