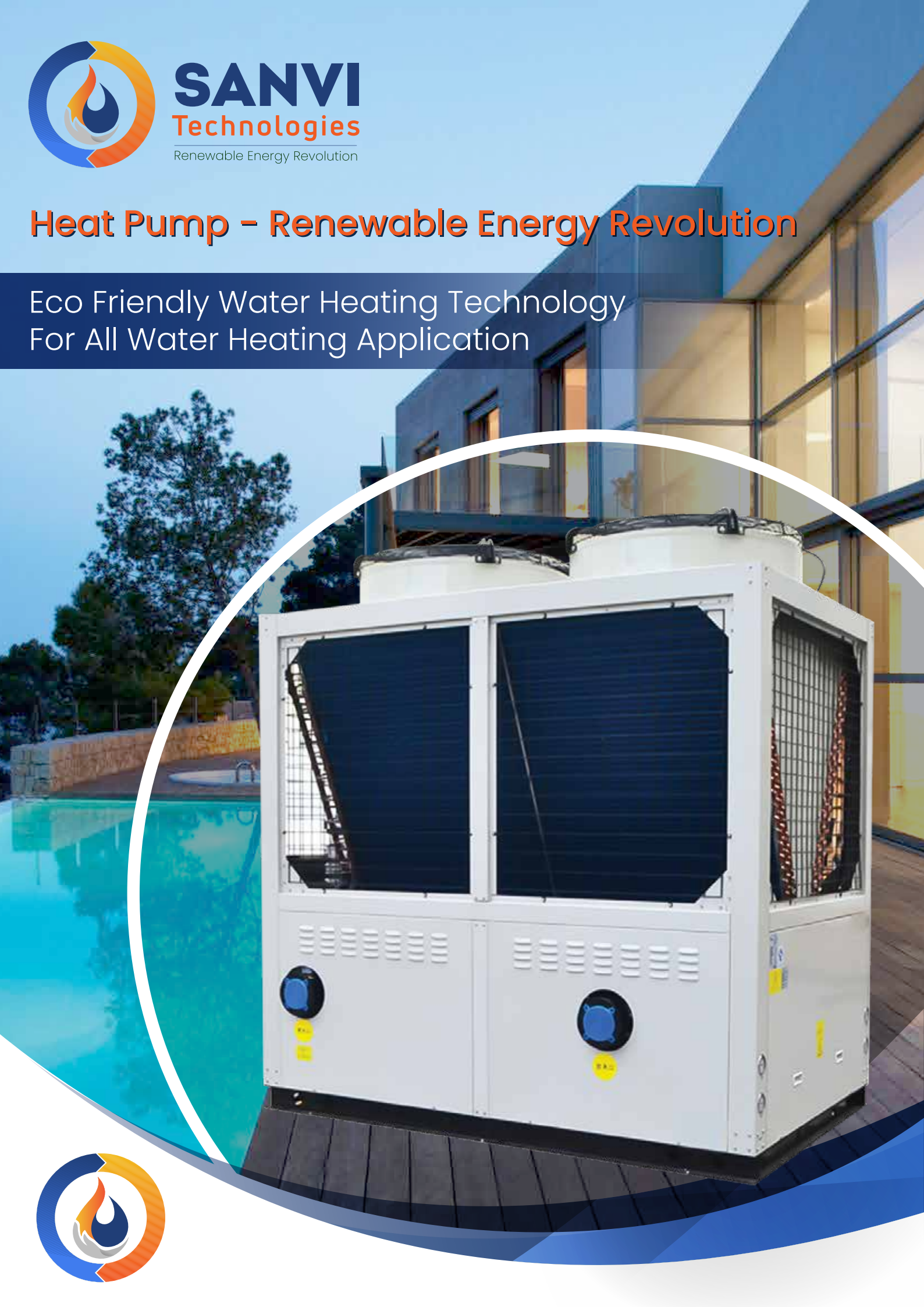
SANVI
Technologies
Renewable Energy Revolution

Heat Pump – Renewable Energy Revolution

Eco Friendly Water Heating Technology For All Water Heating Application



SANVI STANDARD HEAT PUMP SPECIFICATION

Heat pumps offer a low cost yet proven technology that delivers hot water at significantly lower costs compared to traditional systems. They can bring down the energy costs by 70% as compare to electrical resistance heaters and other tradentional systems of hot water generation useing fuels like gas, diesel or coal.

Model	UNIT	SANVI 12 NT	SANVI 22 NT	SANVI 42 NT	SANVI 75 NT
Heating capacity*	kW	12	22	42	75
Water Heating	LPH	250	500	1000	2000
Electrical supply	V/Hz/phase	220 / 50 Hz / 1ph	440 / 50 Hz / 3 ph	440/ 50 Hz / 3ph	440 / 50 Hz / 3ph
Recommended Tank	Ltrs	1000 Ltrs	2000 Ltrs	4000 Ltrs	2X 4000 Ltrs
Max water temperature	Deg C	60 Deg C	60 Deg C	60 Deg C	60 Deg C
Power consumption (Input)	kW	3.3	5.7	10.7	19.2
		3.6	3.8	3.9	3.9
Full load current	Amps	5	12	27	38
Refrigerant type		R134a	R134a	R134-A	R134a
Compressor Type		Scroll/reciprocating	Scroll	Scroll	Scrol
low/high pressure switch	bar	0.5/28	0.5/28	0.5/28	0.5/28
Heat exchanger		SS Shell and Coil	SS Shell and Coil	SS Shell and Coil	SS Shell and Coil
Fans		Axial Type Direct Drive, 4 blade 1 no	Axial Type Direct Drive, 4 blade 1 no	Axial Type Direct Drive, 4 blade 2 nos	Axial Type Direct Drive, 4 blade 2 nos
Water circulation		Pump built in	Pump built in	Pump built in	Pump built in
Water circulation rate	Lt / min	30 LPM	40 LPM	75 LPM	180 LPM
Diameter of pipe connections	mm / Inch	25mm/1*	25mm/1*	25mm/1*	37mm/1.5*
Housing Dimensions		GI- powder coat finish	GI- powder coat finish	GI- powder coat finish	GI- powder coat finish
Height	mm	1100	1450	1700	1800
Width	mm	750	950	1200	1700
Depth	mm	450	450	850	950
Weight	Kg	150	180	300	500

* Nominal Heating capacity at rated conditions of 25 Deg C 70% RH and water entering c

SANVI HIGH TEMPERATURE HEAT PUMP SPECIFICATION

High temperature heat pumps can be used in Industry for hot water production in temperature range fo 70 Deg C to 120 Deg C . One of the main challenges of high temperature heat pumps is their integrability into the production process industry and to match the available heat source to the required heat demand.

Model	UNIT	SANVI 06 HT	SANVI 12 HT	SANVI 24 HT	SANVI 45 HT
Heating capacity*	kW	6	12	24	45
Water Heating	LPH	250	500	1000	2000
Electrical supply	V/Hz/phase	220 / 50 Hz / 1ph	440 / 50 Hz / 3 ph	440/ 50 Hz / 3ph	440 / 50 Hz / 3ph
Max water temperature	Deg C	75 Deg C	75 Deg C	75 Deg C	75 Deg C
Power consumption (Input)	kW	2.5	4.5	9	18
COP		2.4	2.6	2.5	2.5
Full load current	Amps	12	8	25	35
Refrigerant type		HFC Blend	HFC Blend	HFC Blend	HFC Blend
Compressor Type		Scroll/reciprocating	Scroll	Scroll	Scrol
low/high pressure switch	bar	0.5/28	0.5/28	0.5/28	0.5/28
Heat exchanger		SS Shell and Coil/BPHE	SS Shell and Coil/BPHE	SS Shell and Coil/BPHE	SS Shell and Coil/BPHE
Fans		Axial Type Direct Drive, 4 blade 1 no	Axial Type Direct Drive, 4 blade 1 no	Axial Type Direct Drive, 4 blade 2 nos	Axial Type Direct Drive, 4 blade 3 nos
Water circulation		Pump built in	Pump built in	Pump built in	Pump built in
Water circulation rate	Lt / min	30 LPM	40 LPM	75 LPM	180 LPM
Diameter of pipe connections	mm / Inch	25mm/1*	25mm/1*	25mm/1*	37mm/1.5*
Housing Dimensions		GI- powder coat finish	GI- powder coat finish	GI- powder coat finish	GI- powder coat finish
Height	mm	1100	1450	1700	1800
Width	mm	750	950	1200	1700
Depth	mm	450	450	850	950
Weight	Kg	150	180	300	500

* Nominal Heating capacity at rated conditions of 25 Deg C 70% RH and water entering c

SANVI SWIMMING POOL HEAT PUMP SPECIFICATION

Sanvi heat pumps for heating pool water make it possible to prolong the bathing season by taking advantage of the fee heat in the air. Its main characteristics are the energy savings it makes even while heating the swimming pool which requires large amount of heat.

Model	UNIT	SANVI 20 SW	SANVI 30 SW	SANVI 40 SW	SANVI 80 SW
Heating capacity*	kW	20	30	40	80
Electrical supply	V/Hz/phase	440 / 50 Hz / 2ph	440 / 50 Hz / 3 ph	440/ 50 Hz / 3ph	440 / 50 Hz / 3ph
Recommended Pool	Ltrs	50,000 Ltrs	80,000 Ltrs	1 Lakh Ltrs	2 Lakh Ltrs
Max water temperature	Deg C	30 Deg C	35 Deg C	35 Deg C	35 Deg C
Power consumption (Input)	kW	3.5	5	6.8	14
Cop		5.7	6	5.9	5.7
Full load current	Amps	14	20	27	52
Refrigerant type		R407c	R407c	R407c	R407c
Compressor Type		Scroll/reciprocating	Scroll	Scroll	Scrol X 2 NOS
Heat Exchanger		PVC Shell & Titanium Coil	PVC Shell & Titanium Coil	PVC Shell & Titanium Coil	PVC Shell & Titanium Coil
Fans		Axial Type Direct Drive, 4 blade 1 no	Axial Type Direct Drive, 4 blade 1 no	Axial Type Direct Drive, 4 blade 2 nos	Axial Type Direct Drive, 4 blade 2 nos
Water circulation		Pump built in	Pump built in	Pump built in	Pump built in
Water circulation rate	Lt / min	130 LPM	200 LPM	300 LPM	580 LPM
Diameter of pipe connections	mm / Inch	37mm/1.5*	37mm/1.5*	50mm/2*	50mm/2*
Housing Dimensions		GI- powder coat finish	GI- powder coat finish	GI- powder coat finish	GI- powder coat finish
Height	mm	1100	1700	1700	1800
Width	mm	900	1200	1400	1700
Depth	mm	900	950	950	950
Weight	Kg	150	180	300	500

* Nominal Heating capacity at rated conditions of 20 Deg C 70% RH and water entering condense at 20 Deg

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