



NATIONAL HEAT PUMPS PVT. LTD.

MANUFACTURERS & CONSULTANTS : HEAT PUMPS & WATER MANAGEMENT SYSTEMS

**ENERGYSAVER
HEAT PUMPS**

AUTO INDUSTRY



HOSPITAL



PHARMA INDUSTRY



HOTEL



RAILWAY STATION



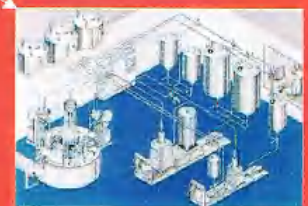
HEAT PUMPS



RESIDENTIAL BUILDING



SWIMMING POOL
HEATING



DAIRY

**An Advanced Technological Revolution
from the House of NATIONAL HEAT PUMPS**

INTRODUCTION

NATIONAL HEAT PUMPS PVT. LTD. is a company started by a group of professionals with over 25 years of experience in the field of manufacturing and marketing Heat Pump Systems. We believe in constant research and development to ensure that the customer gets the best value added products.

In addition to Heat Pumps, we provide total water management services like Hydropneumatic System, Swimming pool equipments, R. O. Systems, Water treatment systems and water pumping systems. We guide the clients right from basic design, selection of equipments upto installation and commissioning .

We are well known for our prompt delivery of equipments and installations at site. We also offer prompt after sales service.

We have a highly motivated team and we at **NATIONAL HEAT PUMPS PVT. LTD.** provide quality equipments which have long life and give the customers value for money.

WHAT IS A HEAT PUMP

Heat pump is a heat recovery system that generates both hot and chilled water at one energy cost saving over 60% of energy and energy cost compared to conventional systems.

COMPRESSOR



ELECTRONIC CONTROLLER



PHE



SCROLL



SHELL & TUBE
HEAT EXCHANGER

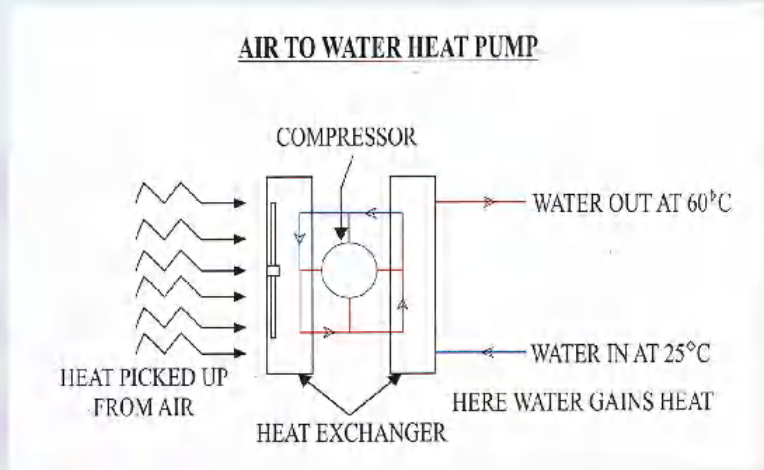
AREAS OF APPLICATION

- Residential Buildings
- Industries like Pharma, Auto Manufacturers, Dairies etc.
- Hotels
- Hospitals
- Railway Stations
- Swimming Pools
- Any other area where hot and chilled water is used in plenty.

TYPES OF HEAT PUMPS

1) Air to Water Heat Pump:

The Heat Pump is a heat recovery system. In this system there is a working fluid that has a very low boiling point. Due to this characteristic, the fluid picks-up the waste heat from the atmosphere. This hot fluid then goes to a compressor where due to compression high temperatures are achieved. The hot fluid then passes through a heat exchanger where, on one side the hot fluid passes and water passes through the other side. Since, water is at low temperature, water picks-up the heat. Thus, hot water is generated.

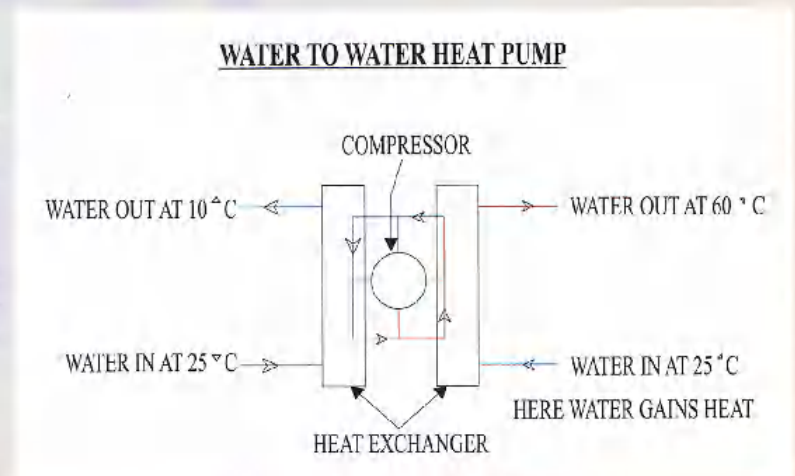


2) Water to Water Heat Pump:

In this system, heat is picked-up from water on one side and transferred to water on the other side, at one energy cost

A Water to Water Heat Pump generates both hot water at 60°C and chilled water at 10°C. This system can be used where there is requirement of both hot & chiller water, like central Air conditioning or chilled water used for processes or drinking & hot water for domestic uses like in bathrooms or in Industrial applications like washing machines etc. are used. Also, hot water can be used for certain application where products have to be maintained at certain high temperatures constantly.

*** This entire operation consumes very little energy, as energy is required for only up-gradation of heat by the compressor .



ADVANTAGES OF USING A HEAT PUMP

- An energy saving device that saves energy and energy costs by over 60%
- Easy to install and occupies less floor space.
- Allowed 80% DEPRECIATION under Incomtex Act. 1961
- Environment friendly as there is no carbon emission.
- Low Maintenance cost.
- Can be installed any where.
- No Government or Municipal permission required.

TECHNICAL SPECIFICATIONS

MODEL	TR	POWER CONSUMPTION	HEATING OUTPUT IN (KCAL)	HEATING OUTPUT (KW)	TEMP. IN	TEMP. OUT	HOT WATER OUTPUT (LT/HR)	HEATING C.O.P.	COOLING OUTPUT (KCAL)	COOLING OUTPUT (KW)	TEMP. IN	TEMP. OUT	CHILLED WATER OUTPUT (LT/HR)	COOLING C.O.P.
NAWH51	5 TR	6.6 KW	17150	1993	25°C	55°C	570	3.01	--	--	--	--	--	--
NAWC51	5 TR	5.8 KW	--	--	--	--	--	--	16740	1946	30°C	12°C	930	3.36
NWWHC51	5 TR	6.6 KW	17150	1993	25°C	55°C	570	3.01	13390	1557	12°C	7°C	2675	2.36
NAWSPH51	5 TR	4.1 KW	20034	2329	15°C	30°C	1355	5.68	--	--	--	--	--	--
NAWH751	7.5 TR	10.2 KW	26400	3069	25°C	55°C	880	3.01	--	--	--	--	--	--
NAWC751	7.5 TR	9.1 KW	--	--	--	--	--	--	25880	2974	30°C	12°C	1420	3.26
NWWHC751	7.5 TR	10.2 KW	26400	3069	25°C	55°C	880	3.01	20820	2421	12°C	7°C	4160	2.37
NAWSPH751	7.5 TR	6.4 KW	30996	3604	15°C	30°C	2066	5.63	--	--	--	--	--	--
NAWH101	10 TR	12.6 KW	32390	3765	25°C	55°C	1080	2.99	--	--	--	--	--	--
NAWC101	10 TR	11.2 KW	--	--	--	--	--	--	3570	3671	30°C	12°C	1755	3.28
NWWHC101	10 TR	12.6 KW	32390	3765	25°C	55°C	1080	2.99	25583	2974	12°C	7°C	5117	2.36
NAWSPH101	10 TR	8.1 KW	37800	4395	15°C	30°C	2520	5.43	--	--	--	--	--	--
NAWH151	12.5 TR	15.3 KW	40010	4652	25°C	55°C	1334	3.04	--	--	--	--	--	--
NAWC151	12.5 TR	13.6 KW	--	--	--	--	--	--	38647	4493	30°C	12°C	2145	3.30
NWWHC151	12.5 TR	15.3 KW	40010	4652	25°C	55°C	1334	3.04	31570	3671	12°C	7°C	6310	2.40
NAWSPH151	12.5 TR	9.6 KW	46116	5362	15°C	30°C	3070	5.59	--	--	--	--	--	--
NAWH151	15 TR	20.0 KW	51980	6044	25°C	55°C	1730	3.02	--	--	--	--	--	--
NAWC151	15 TR	17.7 KW	--	--	--	--	--	--	50350	5854	30°C	12°C	2800	3.31
NWWHC151	15 TR	20.0 KW	51980	6044	25°C	55°C	1730	3.02	40824	4747	12°C	7°C	8165	2.37
NAWSPH151	15 TR	12.8 KW	59976	6970	15°C	30°C	4000	5.45	--	--	--	--	--	--
NAWH182	20 TR	24.9 KW	64230	7467	25°C	55°C	2140	3.00	--	--	--	--	--	--
NAWC182	20 TR	22.0 KW	--	--	--	--	--	--	62052	7215	30°C	12°C	3445	3.28
NWWHC182	20 TR	24.9 KW	64230	7467	25°C	55°C	2140	3.00	49805	5791	12°C	7°C	9960	2.33
NAWSPH182	20 TR	15.9 KW	75096	8731	15°C	30°C	5006	5.49	--	--	--	--	--	--
NAWH232	25 TR	29.7 KW	80287	9335	25°C	55°C	2675	3.14	--	--	--	--	--	--
NAWC232	25 TR	26.5 KW	--	--	--	--	--	--	77838	9050	30°C	12°C	4325	3.41
NWWHC232	25 TR	29.7 KW	80287	9335	25°C	55°C	2675	3.14	63140	7341	12°C	7°C	12625	2.47
NAWSPH232	25 TR	19.4 KW	91728	10665	15°C	30°C	6115	5.50	--	--	--	--	--	--
NAWH302	30 TR	40.0 KW	103960	12089	25°C	55°C	3465	3.02	--	--	--	--	--	--
NAWC302	30 TR	35.4 KW	--	--	--	--	--	--	100700	11708	30°C	12°C	5595	3.31
NWWHC302	30 TR	40.0 KW	103960	12089	25°C	55°C	3465	3.02	81648	9494	12°C	7°C	16330	2.37
NAWSPH302	30 TR	25.6 KW	119952	13740	15°C	30°C	8000	5.45	--	--	--	--	--	--
NAWH362	40 TR	49.0 KW	120460	14936	25°C	55°C	4280	3.00	--	--	--	--	--	--
NAWC362	40 TR	44.0 KW	--	--	--	--	--	--	124104	14630	30°C	12°C	6890	3.28
NWWHC362	40 TR	49.0 KW	120460	14936	25°C	55°C	4280	3.00	99610	11582	12°C	7°C	19920	2.33
NAWSPH362	40 TR	31.0 KW	150192	17667	15°C	30°C	10012	5.49	--	--	--	--	--	--
NAWH462	50 TR	59.4 KW	160524	18670	25°C	55°C	5352	3.14	--	--	--	--	--	--
NAWC462	50 TR	50.0 KW	--	--	--	--	--	--	153676	18100	30°C	12°C	6650	3.41
NWWHC462	50 TR	59.4 KW	160524	18670	25°C	55°C	5352	3.14	126390	14682	12°C	7°C	25230	2.47
NAWSPH462	50 TR	38.0 KW	181456	21310	15°C	30°C	13230	5.50	--	--	--	--	--	--

AND MULTIPLES



NATIONAL HEAT PUMPS PVT. LTD.

MANUFACTURERS & CONSULTANTS : HEAT PUMPS & WATER MANAGEMENT SYSTEMS

Unit No. 16 & 17, Ground Floor, Shiv Krupa Industrial Estate, L.B.S. Marg, Vikhroli (W), Mumbai - 400 083.

Tel.: 022 - 2579 2580 / 81 / 82 Fax : 022 - 2579 2583

Email ID : info@nationalheatpumps.com, sales@nationalheatpumps.com

Website : www.nationalheatpumps.com