



DOMESTIC AND RESIDENTIAL SEGMENT

Energy Efficient Pumps



Link: arin.bz/SAPTHA

APPLICATION:

- · Water pressure boosting
- · Household water supply
- · Boosting from above ground water tanks
 - CM BOOSTER

APPLICATION:

- Large bungalow · Domestic buildings
- · Cottages and villas
- · Mid-size hotels / hospitals · Schools



PRESSURE BOOSTING APPLICATION :

- Large houses Domestic buildings
- Cottages and villas
- · Mid-size hotels / hospitals / schools





- Cottages and villas Midsize hotels /
- hospitals / schools Community hostels





TWIN BOOSTER

APPLICATION :

- · Pressure boosting water from roof tank and sump tank
- Gardening
- · Water transfer · Car wash
- · Taps & showers in the home
 - SCALA 1

APPLICATION:

- General pressure boosting & cleaning Green houses
- Irrigation
- · Car wash
- · Taps & showers in the home

SCALA 1 TWIN SYSTEM

APPLICATION :

- Pressure boosting from city mains and roof tank Break tank and
- ground tank.



APPLICATION : Domestic boosting with

- inlet pressure (0.1 bar) for single shower, taps gas heaters and washing machines.
- Inlet boosting to the solar tank Ideal for single bathroom application without

special shower gadgets

UPA

WATER TRANSFER AND CIRCULATION PUMP

SCALA 2 WASTE WATER LIFTING STATIONS

APPLICATION:

- · Water treatment · Hot water circulation

tank below and

· Treated water transfer

CM (liquid temp 20oC- 120oC) Domestic.

APPLICATION:



APPLICATION: Heating Air-conditioning

- Cooling
- hot water systems
- Domestic heat pump

APPLICATION : · Extra bathrooms even away

- from drainage stack (e.g attics) · Backwater protection of sanitary
- appliances when placed below the sewer level
- Added rest room and wellness facilities in

WATER TRANSFER AND DRAINAGE PUMPS

guest houses and holiday cottages MAGNA 3 · Office and building renovation SOLOLIFT 2

APPLICATION:

Collection and disposal of wastewater in single-family houses or light commercial applications.



MULTI MSS

APPLICATION:

- · Shallow wells
- · Rainwater collection in tanks
- · Boosting of public water collected in break tanks

APPLICATION :

- Water lifting from
- horewell Water transfer from
- ground tank Pressure Boosting

APPLICATION: Sump to over head tank filling

- Farms Fountains
- · Industrial and rural water supply
- Gardening Landscaping SMART SUB



Wastewater pump



SEG GRINDER

APPLICATION :

SR

- Fountains
- Dewatering



APPLICATION:

- · Rainwater, drainage water and water from
- flooding pools water
- · Effluents from showers, washing machines and sinks below sewer level
- Water and rainwater in horticulture

UNILIFT AP/KP

APPLICATION :

residential segments



APPLICATION Domestic and

segments



APPLICATION: Storm water.

sewage. booster sets. rainwater reuse, irrigation



GIDPC 3

CONTROL PANELS

· Domestic and



residential







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COMMERCIAL SEGMENT

Energy Efficient Pumps



APPLICATION :

IN-LINE MULTI STAGE PUMPS

- · For clear water & select liquids
- (like oil, water, coolant...) . Pressure boosting • OHT filling • Chilled water • Boiler feed
- · Filter feed · Water treatment
 - PRODUCT TYPE: CR, CRI, CRN, CRE, CRIE, CRNE, CRNE-HS, CRT, CRTE

HYDRO PNEUMATIC SYSTEM

APPLICATION :

- · Hydro booster pumps · High rise buildings
- · Hotels · Hospitals · Schools · Residential buildings







CRN



MULTER

PRODUCT TYPE: HYDRO MULTI S, HYDRO MULTI B, HYDRO MPC, HYDRO MULTI E

APPLICATION :

· For clear water · Pressure boosting

- · OHT filling · Chilled water · Boiler feed
- · Filter feed · Water treatment

END SUCTION PUMPS





WATER TRANSFER & CIRCULATION

PRODUCT TYPE: CM / CME





PRODUCT TYPE: NB/NBE, NK/NKE

TP INLINE PUMPS APPLICATION :

· Chilled water pumps · Heating

- · Industrial cooling · Industrial processes
- · HVAC · Air conditioning · Water distribution



SINGLE PUMP/ HOME BOOSTER

APPLICATION · For clear water & select liquids

- (like oil, water, coolant...) . Heating
- · Air conditioning · Pressure boosting
- · Domestic water supply



PRODUCT TYPE: TP. TPE

APPLICATION :

- · Commercial water pressure boosting
- · Domestic water pressure boosting



CMBE

WATER TRANSFER / BOREWELLS PUMPS APPLICATION :

- Borewell
- Pressure boosting



SP

PRODUCT TYPE: SP, MS

WASTE WATER & SEWAGE PUMPS

APPLICATION

- Dewatering
- Waste water





DPK PRODUCT TYPE: DPK, DWK, AP/KP



DPKV



- Waste water
- · Sewage water





SLV

SEWAGE PUMPS WITH COLLECTION TANK

APPLICATION : Commercial wastewater

- · Domestic wastewater





MULTI MSS MULTILIFT 2 PRODUCT TYPE: MULTI LIFT



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INDUSTRIAL SEGMENT

Energy Efficient Pumps



IN-LINE MULTI-STAGE PUMPS

APPLICATION:

- · For clear water & select liquids (like oil, water, coolant…)
- · Pressure boosting
- · OHT filling · Chilled water · Boiler feed
- · Filter feed · Water treatment







CRN CRE

PRODUCT TYPE: CR, CRI, CRN, CRE, CRIE, CRNE, CRNE-HS, CRT, CRTE

FND SUCTION PUMPS

APPLICATION:

- · For clear water · Water distribution
- · Air conditioning · Filter feed
- · Water treatment · Irrigation





TP INLINE PUMPS

NK



PRODUCT TYPE: NB/NBE, NK/NKE

WATER TRANSFER & CIRCULATION

CM

APPLICATION:

- · For clear water & select Liquids (like oil, water, coolant...)
- Industrial plants, washing & cleaning, water treatment
- · Heating · Air conditioning
- · Pressure boosting

APPLICATION:

Chilled water pumps

- Heating
- · Industrial cooling
- · Industrial processes
- · HVAC · Air conditioning
- · Water distribution





PRODUCT TYPE: TP, TPE

PRODUCT TYPE: CM/CME HYDRO PNEUMATIC SYSTEM

CME

APPLICATION: Potable water distribution within the plant, Process water distribution for heating/cooling applications, water supply to cooling towers/ reactors, water supply to cleaning/washing







HYDRO MPC



HYDRO MULTI E

PRODUCT TYPE: HYDRO MULTI S, HYDRO MULTI B, HYDRO MPC, HYDRO MULTI E

APPLICATION:

applications

- · Heating · Air conditioning · Cooling
- · Domestic hot water systems
- · Domestic heat pump systems
- · Solar heating systems PRODUCT TYPE: MAGNA 3

CIRCULATION PUMPS





- APPLICATION: · Hot water circulation
- · Heating systems



PRODUCT TYPE: UP(S)

IMMERSIBLE COOLANT PUMPS

APPLICATION :

· Machine tool coolant



MTH MTR MTRE PRODUCT TYPE: MTH, MTR, MTRE, MTA, MTS, SPK

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TOTAL SAVING IN POWER COST as on 31.10.2024 is Rs. 1.22 CRORE AND COUNTING WITH EACH PASSING DAY.

YEAR	CUSTOMER	APPLICATION	OLD PUMP POWER CONSUMPTION KW	RECOMMENDED PUMP POWER CONSUMPTION KW	POWER SAVED KW	POWER SAVED %	TOTAL SAVED PER DAY (kWH)	TOTAL SAVED (RS./ANNUM)	Co ₂ Emission Reduction CO ₂ e Tons/Yr
2017 To 2022	1	DOMESTIC OHT	49	15.23	33.7	68.77	404.4	13,02,168.00	29.3
	2	CHILLED WATER HVAC	117	44	73	62.39	876	28,20,720.00	63.4
	3	CHILLED WATER HVAC	27.8	14	13.8	49.64	165.6	5,33,232.00	12
	4	CONDENSOR WATER	52.58	34.42	18.16	34.53	217.92	7,01,702.40	15.7
	5	CHILLED WATER HVAC PH1	9.4	4.98	4.42	47.02	53.04	1,70,788.80	3.8
	6	PRESSES OPHE	65	32	33	50.76	396	12,75,120.00	28.7
	7	ETP PRESSURE FILTER FEED	8.54	4.42	4.12	48.24	49.44	1,59,196.80	3.6
	8	ETP GARDEN PUMPS	8.5	4.51	4	47.05	48	1,54,560.00	3.5
	9	CHILLED WATER HVAC PH2	7.9	2.5	5.4	68.35	64.8	2,08,656.00	4.7
	10	CHILLED WATER HVAC PH3	7.6	2.48	5.1	67.10	61.2	1,97,064.00	4.4
2023	11	DOMESTIC - RO	4.4	2.3	2.1	47.72	25.2	81,144.00	1.8
	12	PROCESS PUMPS	41.3	33	8.3	20.09	99.6	3,20,712.00	7.2
	13	SECONDARY PUMP	14.4	8.5	5.9	40.97	70.8	2,27,976.00	5.1
	14	BOOSTER PUMP	72	49	23	31.94	276	8,88,720.00	21.1
	15	BOOSTER PUMP	15.3	7.8	7.5	49.01	90	2,89,800.00	6.5
	16	BOOSTER PUMP	3.9	2	1.9	48.71	22.8	73,416.00	1.6
	17	IRRIGATION PUMP	60	40.4	19.6	32.66	235.2	7,57,344.00	17
	18	CONDENSOR PUMP	83.6	64.8	18.8	22.48	225.6	7,26,432.00	16.3
2024	19	DOMESTIC WATER	6	4	2	33.33	24	77,280.00	1.7
	20	DOMESTIC WATER	4.4	2.1	2.3	52.27	27.6	88,872.00	2
	21	CHILLED WATER HVAC	22	17.3	4.7	21.36	56.4	1,81,608.00	4.08
	22	HOT WATER CIRCULATION	11	6.7	4.3	39.09	51.6	1,66,152.00	3.73
	23	FLUSHING WATER	22	18.6	3.4	15.45	40.8	1,08,192.00	2.4
	24	DOMESTIC WATER	11	7.4	3.6	32.72	43.2	1,39,104.00	3.1
	25	FLUSHING WATER	11	6.9	4.1	37.27	49.2	1,58,424.00	4.2
	26	HOT WATER CIRCULATION	5.5	3.8	1.7	30.90	20.4	65,688.00	0.3
	27	ETP WATER	7.5	4.7	2.8	37.33	33.6	1,08,192.00	2.4
	28	PROCESS PUMPS	11	8.1	2.9	26.36	34.8	1,12,056.00	2.5
	29	CHILLED WATER	18.5	15.8	2.7	14.59	32.4	1,04,328.00	2.3
		•						1.21.98.648.00	274.41

Do you know:

- 85% of lifetime cost of a pump is incurred by energy consumption of the pump during its lifetime
- 6 out of 10 pumps in operation are not optimised for their application and therefore waste energy

Major Reasons for Excess Power Consumption

1. Improper Selection

5. Operational for more than @ 10- 15 years with loss in 25% efficiency

2. Over Design

6. Improper Layout/Piping

3. Suction as well as the delivery valves are throttled 7. Improper maintenance

4. Old and Inefficient pump.

8. Usage of spurious spares

Why Energy Audit -

While industry consumes 50% of the total energy expended, 20% of this is consumed by pumps.30-50% of this energy guzzled by pumps can be saved. The life cycle cost in a pump reveal that the energy costs eats away 85%, maintenance costs 10% and the initial investment of the product is a meagre 5% by which customer can find out how to reduce energy costs and plan for future improvements and kick start a company energy management strategy.

Benefits of Energy Audit -

It is an opportunity to find out how to reduce energy costs by approx 5 to 15 percent, often with payback periods of approx less than two years. Establish a baseline against which to compare future improvements and Help kick-start a company energy management strategy.



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Benefits of Annual Maintenance Contract



- 2 free emergency visit support
- Guaranteed priority service from trained service engineers
- Ensuring the pump operates within the designed parameters (Recommended Efficiency curve)
- On call and video support service in case of exigency
- Regular and Proper diagnosis of problem and give appropriate solution
- Increase in uninterrupted availability of pumps and pumping system
- Feedback on status after every visit to take preventive action
- Availability of select critical space
- Help reduce energy cost
- Helps reduce frequency of panic situation
- Spares Cost- can be budgeted
- Reduction in spares and pump inventory cost
- Reduction in life time cost of pumps
- Free health check of pumps of more than 7.5HP capacity & more than 10 years old
- Discount on energy audit charges to explore savings on energy cost
- Select multi-brand pump service support
- Spare pumps support only if available in case of exigency
- Pumps will be available on rental basis if required
- On a case to case basis pump exchange option can also be considered
- Support in optimised selection of pumps when there is a need for replacement









HEAT PUMPS

Choose the Best... Choose A. O. Smith!



(Schools & Colleges)



Hotels

Resorts



Restaurant & Kitchen



Manufacturing Facilities



Hospitals

A.O.Smith Heat Pump Benefits

ES AES

The Intelligent Adaptive Energy Saving technology analyzes the water usage pattern to automatically heat up the water and optimize energy consumption

LED Display with Self Diagnosis

Real-time display of temperature control, times and error code for a trouble free service

· Multiple Heating Mode

User can choose between Efficiency, Hybrid Turbo, Max and Instant Heating Mode

Blue Diamond Glass Coating

Corresponds to longer life to your tank by its corrosion resistance and reduced scaling accumulation technology

(I) High Performance

Can achieve upto 65°C in Heat pump mode

7 Absolute Safe the Power of 7

Safety features to ensure the protection of the Heat Pump under all conditions

1.Compressor Overheating discharge protection 4.Refrigerant leakage protection

2.Abnormal operation protection

(Relay and electronic expansion valve)

3.High & low voltage protection

5. High water temperature protection

(Temperature sensor)

6.High-Temperature limit protection switch (ECO Switch)

7.Temperature & pressure relief valve

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