



Distributors For : "UNITED WORKS & VANAZ & RPG RAYCHEM & LIQUIGAS"

# KAVYA GAS WORKS

(LPG, LOT & VOT Reticulated System)

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## Working Principle

In the Hot water bath electrical vaporizer, LPG is passed through a coil immersed in water bath maintained at a temperature of 60°C and above. Electrical heaters are used to heat water leading to increased use of electricity, making the operational costs very expensive.

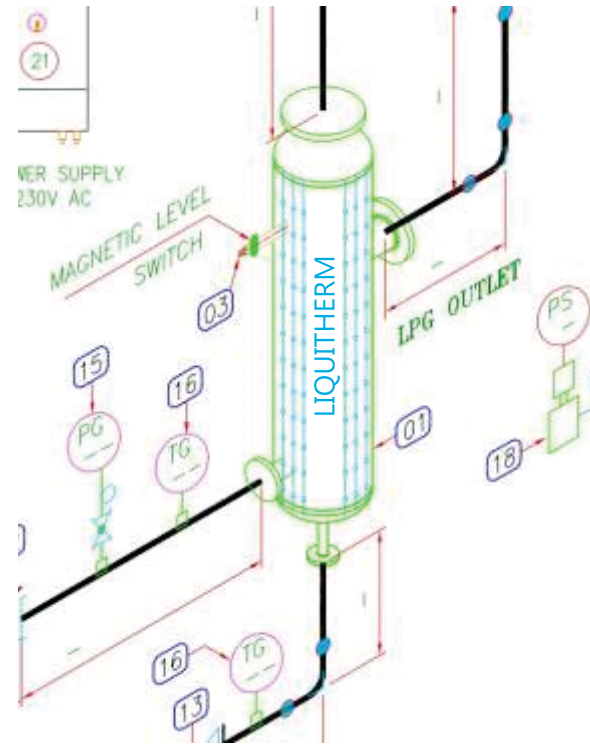
Conventional 200 Kg Vaporizers has ₹10.28 lacs per annum operating cost. (Considering ₹8.5/kw Electricity rate & 70% load)

Our Liquitherm is a revolutionary product that does not consume any electricity for vaporization of LPG, making the entire process more green, economical and efficient.

Working on the principle of thermodynamics, Liquitherm is designed to reduce the pressure and temperature of LPG.

The process to vaporize cooled LPG is achieved by a special heat exchanger which works on continuous flow of water from a storage tank in a closed loop circulation – all at an ambient temperature.

The whole process converts LPG into vapour form at the required pressure. As no electricity is consumed for vaporization, Liquitherm helps not only in reducing operating cost but plays very important role in saving energy & reducing Carbon footprint.



## Comparisons of Liquitherm Vs Electrical Vaporisers

Vaporizer capacity Kg/ Hour	Electrical Vaporiser Load (KW)	LIQUITHERM Load (KW)	Water Storage Tank Capacity (KL)	Electrical Vaporizer yearly cost (Rs) Load- 70% Electricity Rate Rs 8.5/KW	LIQUITHERM Yearly cost(Rs)	Yearly Savings in Electricity (Rs)
50	6	0.75	30	308448	55080	253368
100	12	0.75	60	616896	55080	561816
150	18	1.00	90	925344	73440	851904
200	24	1.00	120	1233792	73440	1160352
250	30	1.50	150	1542240	110160	1432080
300	36	1.50	180	1850688	110160	1740528
400	48	1.50	240	2467584	110160	2357424
500	60	2.20	300	3084480	161568	2922912
1000	120	5.00	600	6168960	367200	5801760

**"Water tank is not required if you have a cooling Tower. Using LHLV greatly improves the Cooling Tower's efficiency by reducing the water temperature".**