

Ventilators

<u>Ventilators</u> are jet pumps which work with the same principal of ejectors but are applicable to remove high amount of volume flow rates and to create small pressure difference between discharge and suction. The pressure energy of the motive medium in the motive nozzle converts to kinetic energy and it entrains the suction fluid. Motive medium of the ventilators, corresponding to the special application of equipment or available medium, can be steam, gas or liquid.

<u>General Usage</u>	Typical Applications in Industries
To convey large amount of suction gas against small pressure difference up to nearly 500 mbar.	 Conveying different kinds of gases at small pressure difference in <u>Chemical Industry</u> <u>Boiler</u> burners ventilating Emergency gas removal during power failures in <u>Steel Industry</u> Tank ventilating A part of jet <u>scrubber</u> to remove the dust and absorb or cool the discharge gas In <u>Chemical Factories</u> to deaerate reaction vessels, agitator vessels and other aggregates In <u>Leather, tobacco and textile industries</u> for the air circulation
<u>Advantages</u>	 No rotating part Low maintenance cost working with all types of fluids Long lifetime Safe and reliable operation Manufactured from various materials

- Manufactured from various materials
- Simple Construction

Applicable Materials	<u>Different Types</u>
 Stainless Steel Carbon Steel PTFE Special material such as Hastelloy 	 Steam-Gas Ventilator: Steam as the motive medium removes gas in suction part. Gas-Gas Ventilator: Gas is the motive medium to convey the suction gas. Liquid-Gas Ventilator: High pressure liquid is applied as motive fluid to remove or convey the suction gas.

Design	n Codes/ Standards	Quality Assurance
*	HEI Standard for Steam Jet Vacuum	
*	Systems ASME Sec.VIII	
	ASME B.31.1 ASME B.31.3	

Kara Ventilators Advantages

- Custom design
- Performance Test at shop



Ability to produce with different types of materials proportional to corrosive/erosive medium or environment

Specifications of one Type					
Steam Jet Ventilator					
South Pars Gas Field Development Phase 17 & 18					
IPMI (Industrial Projects Management of Iran)					
Kg/hr	1044	1718 mm			
mbara	100				
in	8"×10"				
	Steam Jet South Pars IPMI (Indu Kg/hr mbara	Steam Jet VentilatorSouth Pars Gas Field IIIPMI (Industrial ProjectKg/hr1044mbara100			



Previous Projects

Equipment photos / Operation photos / Applications photos