

steam jet ejector performance pdf

Steam Jet Ejectors Bulletin 5E-H SINGLE-STAGE EJECTORS FIG. 556 TEFZEL-LINED STEAM JET EJECTORS FOR CORROSIVE APPLICATIONS The Tefzel[®]-Lined Steam Jet Ejector is designed for use in corrosive applications. The unit is available in standard sizes up to 6" and custom fabricated for larger sizes. This

Steam Jet Ejectors - Schutte & Koerting

impede system performance. The ejector manufacturer should be consulted to determine the suitability of the installation. UTILITIES Steam supply. A source of dry steam " at or slightly above design pressures - must be available at the ejector nozzles at all times. Operating a steam-jet vacuum system at steam pressures lower than

DESIGNING STEAM JET VACUUM SYSTEMS - Graham Corporation

CONTROLLING EJECTOR PERFORMANCE BY C. G. BLATCHLEY SCHUTTE & KOERTING.

CONTROLLING EJECTOR PERFORMANCE Pumps operating on the ejector principle are in use on many processes. In an increasing number of ... The Steam Jet Blower is a steam jet or air jet air pump designed for large capacities at low drafts.

CONTROLLING EJECTOR PERFORMANCE - Schutte & Koerting

Steam Jet Air Ejector Performance Evaluation By Komandur S. Sunder Raj AF Air fraction = $W_a / (W_a + W_v)$
DO Dissolved oxygen, parts per billion (ppb) HO₂ Henry's Constant Ma Molecular weight of air = 29 Mnc
Molecular weight of NC gases Mv Molecular weight of water vapor = 18 Pa Partial pressure of air, in.HgA Pnc
Partial pressure of NC gases, in.HgA

Steam Jet Air Ejector ASME Performance Evaluation

Exchange Institute Standards for Steam Jet Ejectors describes the method to convert the mixture (air, water vapor, and various hydrocarbons) to a water-vapor equivalent or an air-equivalent load. Other important information noted on an ejector performance curve includes the minimum motive steam pressure, the maximum motive steam temperature ...

Understanding ejector systems necessary to troubleshoot

steam jet ejector performance pdf An additional use for the injector technology is in vacuum ejectors in continuous train braking systems, which were made compulsory in the UK by the Regulation of Railways Act 1889. A vacuum ejector uses steam

Steam Jet Ejector Performance Using Experimental Tests And

A steam ejector is of critical design when the suction pressure is lower than approximately 55% of the discharge pressure. Ejectors designed in the critical range are sensitive to operating conditions other than those for which the unit was designed. The table below illustrates how changes in operation can affect ejector performance:

EJECTORS & EJECTOR THEORY - Proditec

Steam jet ejectors offer a simple, reliable, low-cost way to produce vacuum. They are especially effective in the chemical industry where an on-site supply of the high-pressure motive gas is available.

Steam Ejector Fundamentals: An Alternative to Vacuum Pumps

study the influence of geometrical factors on steam jet ejector performance. The results indicated the existence of an optimal area ratio, depending on operating conditions. Nozzle exit position affected both the critical back pressure and entrainment ratio. The best location for the

Performance Optimization of Steam Jet Ejector Using CFD A

Steam flow to an ejector must be maintained at the design rates, otherwise vacuum column operating pressure may increase. Steam jet-ejectors educt process gases into the steam chest and then through a specially Understand real-world problems of vacuum ejector performance Use these guidelines and case histories to evaluate and troubleshoot ...

Understand real-world problems of vacuum ejector performance

Producing a Vacuum with Steam Jet Ejectors In a vacuum jet ejector, the low-pressure vent steam is the motive energy source. Air and/or water vapor are sucked from the process into the mixing chamber at near-vacuum conditions. Both the motive vent steam and the suction vapors/gases pass through a venturi throat and are released through a diffuser.

Venting of Low-Pressure Steam - US Department of Energy

A. Steam Jet Ejectors 1.0 Principle of Operation . The Standards for Steam Jet Vacuum Systems states "The operating principle of a steam ejector stage is that the pressure energy in the motive steam is converted into velocity energy in the nozzle, and, this high velocity jet of steam entrains the vapor or gas being pumped.

Vacuum Systems: Understanding A Key Component of a Modern

The steam-jet ejector is a device designed to convert the pressure energy of a motivating fluid to velocity energy in order to entrain the suction fluid and then recompress the mixed fluids by converting velocity energy back into pressure energy.

Operation and Maintenance of Ejectors - croll.com

performance of the system, (2) that the best system performance was obtained when the ejectors were operated at equal primary flow rates, and (3) that the effect of the Mach number of the secondary flow in the region of the ejector steam jet can have a great influence on ejector performance. in

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PDF | In this paper, the steam jet ejector was designed and then the CFD analysis was carried out for the geometry and the inlet condition data verified by the performance evaluation of the jet ...

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