

扩散泵 ZHONGHUAN

产品名称	扩散泵 ZHONGHUAN
公司名称	广东中环真空设备有限公司
价格	.00/个
规格参数	品牌:ZHONGHUAN 型号:KT-Series 材质:不锈钢
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产品详情

品牌	ZHONGHUAN	型号	KT-Series
材质	不锈钢	驱动方式	气动
用途	Air pumping		

kt系列油扩散真空泵是用来获得高真空（ $10^{-2} \sim 10^{-5}$ pa）的主要设备。它和阀门、水冷挡板、管道、机械真空泵等组成高真空抽气系统，可获得（ $10^{-2} \sim 10^{-4}$ pa）的工作真空度。如采用液氮等冷却装置，并加以烘烤可获得超高真空（ 10^{-6} pa）。该泵的特点是抽气能力大，抽速从5500l/s至120000l/s范围内可供选择。它增设油观察窗，注油和放油口，泵油测温装置。kt制造采用拉伸工艺，减少焊缝，增加强度，降低放气量。加热器设有电热丝和电热板两种，可供订货时选择。它被广泛地应用在真空镀膜、真空炉、电子、化工、航空、航天、冶金、材料、生物医药、原子能、宇宙探测等高科技领域。

油扩散泵油锅中的泵油在真空中加热到沸腾温度时产生大量的油蒸汽，油蒸汽经导流管由各级喷嘴定向高速喷出。由于进气口附近被抽气体的分压强高于油蒸汽流中该气体的分压强，所以被抽气体分子不断地扩散到油蒸汽流中。油蒸汽撞击被抽气体分子，使被抽气体分子沿着蒸汽流方向高速运动，气体分子碰到泵壁又反射回来再受到蒸汽流的碰撞而重新沿着蒸汽流方向流向泵壁。经过几次碰撞后，气体分子被压缩到低真空端，再由下级喷嘴喷出的蒸汽流进行多级压缩，最后由前级真空泵抽出，而油蒸汽在冷却的泵壁上被冷却后又返回到油锅中重新被加热，如此循环工作。

the oil-diffused pump is another series pump equipments manufactured by our company. its main work principle described here-in as below:

pumping oil heated in the pump oil pot to the ebullition state (about 230 degree centigrade) is caused with evaporation and produced a large amount of evaporated oil liquor speedily and directionally erupted out through nozzles.

as the branch intensity of pressure of the evacuated air nearby the inlet is higher than that of the evaporated oil liquor, so the molecules of the evacuated air are continuously diffused into the evaporated oil liquor with impact on

each other caused the molecules of the evacuated air moving rapidly along the direction of movement of the evaporated oil current. the molecules of the evacuated air are bounced back by cylinder wall and re-impact once again on the evaporated oil current. after several impacts, the molecules of the evacuated air are compressed into the lower vacuum end and emptied out by the fore pump after several compression; whereas the evaporated oil current cooled by cylinder wall, flows back to the heater for re-heating. the recurrence takes place again and again.