

Vacuum-Controlled Solvent Recovery System

溶媒回收装置



DVP201+AK+EK+DK



DVP401+AK+EK+DK

01 PRESENTATION

Vacuum-controlled solvent recovery system, specially designed for the recovery of volatile organic solvents (VOCs). Adopting DVP pro series inverter motor, precise vacuum control is achieved by directly adjusting the motor speed through the vacuum controller, and fully automatic evaporation control can be realized with one key start mode and operated under the optimized condition. Combines the functions of vacuum pumping, condensation recovery and exhaust gas recycling treatment.

溶媒回收装置，专为回收挥发性有机溶剂（VOCs）而设计的真空系统。采用DVP pro系列变频电机，通过真空控制器直接调节电机转速实现精准的真空控制，一键启动模式即可实现全自动的蒸发控制，并在最优化的状态下运行。结合了真空抽气，冷凝回收，废气回收处理等功能。

02 FEATURE

- Full anti-corrosion flow system. 全防腐过流系统
- The vacuum system inlet is equipped with a collection bottle to prevent particles or solvents entering the pump. Inlet with collection bottle to prevent particles or solutions from entering the pump. Exhaust port with collection bottle for solvent recovery.真空系统进气口配收集瓶，防止颗粒或者溶液进入泵内，排气口溶剂回收系统，实现溶剂回收
- Manual mode comes standard with a manual flow valve and automatic mode comes standard with a vacuum controller and solenoid valve.手动模式标配手动流量阀，自动模式标配真空控制器和电磁阀

03 APPLICATION

- Chemical engineering, pharmaceutical production, laboratory, etc 化工、制药、实验室等场景
- Pharmaceutical Industry: Recovery of reaction solvents (such as DMF, THF) 制药行业：回收反应溶剂（如DMF、THF）
- Chemical production: Recovery of organic solvents such as methanol and acetone from waste liquid 化工生产：从废液中回收甲醇，丙酮等有机溶剂
- Laboratory: It is a must solvent Recovery System for rotary evaporation 实验室：旋转蒸发必配套的溶剂回收系统
- Lithium battery manufacturing: Recycling of methyl pyrrolidone from NMP for circular utilization 锂电池制造：NMP回收甲基吡咯烷酮的循环利用

04 TECHNICAL SPECIFICATION

Model 型号	DVP201	DVP401	DVP401H	DVP1201	DVP1001	DVP801H
Ultimate pressure(mbar) 极限真空	8	2	1	2	0.9	0.6
Ultimate pressure with gas ballast (mbar) 开气镇时极限真空	12	4	3	3	1.5	1.2
Maximum pumping speed (m³/h)/(L/s)最大抽速	2(0.5)	4(1.1)	2(0.5)	12(3.3)	10(2.8)	8(2.2)
Power supply (w) 额定功率	180	360	360	600	600	600
Motor 电机	Variable frequency permanent magnet motor,motor automatic protection 变频永磁电机，电机异常自动保护					
Dimensions (mm) 尺寸	252*332*395	252*332*407	252*332*407	557*396*378	557*396*378	557*396*378
Net weight (kg) 净重	11	14	14	23.5	23.5	23.5
Components 部件	Wetted parts 接触介质部分材质					
Displacing valve 排气阀片	FFKM					
Diaphragm 隔膜片	“Sandwich Configuration” PTFE三明治结构PTFE					
Inlet/Outlet 进气口/出气口	PTFE					
Fitting 管件	PTFE、PVDF					
Inlet plate 进气盘	Carbon fiber ETFE 碳纤维ETFE					
Cavity/Diaphragm clamping disc 腔体及膜片夹紧盘	Carbon fiber ETFE 碳纤维ETFE					
Rated power(v) 电压	100-240V/50-60Hz					
Working temperature 工作环境温度	5-45℃					

05 MULTI-STACKING OF THE UNITS

Optional 选配	AK	Suction port separator bottle 吸气口分离瓶
	EK	Exhaust port collection bottle 排气口收集瓶
	DK	Dual pumping port 双抽气口
	SK	Single pumping port 单抽气口
	PC	Vacuum controller 真空控制器