SHELL-AND-TUBE HEAT **EXCHANGER**

SHR管壳式换热器

The shell-and-tube heat exchanger is a universal processing unit for operation of heat transmission and exchange between materials. It's widely applied in such industries as chemical engineering, petroleum, petrochemistry, electricity, light industry, metallurgy, food, atomic energy, shipbuilding, aviation and heat supply. In particular, it accounts for about 40% of the total devices and 30%-45% of total investment in oil refining and chemical engineering. Currently the shell-and-tube heat exchanger is most used in the heat exchange equipment.

管壳式换热器是一种实现物料之间 热量传递、进行热交换操作的通用工艺 设备。广泛应用于化工、石油、石油化 工、电力、轻工、冶金、食品、原子 能、造船、航空、供热等行业中。特别 是在炼油和化工装置中,管壳式换热器 占总设备数量40%左右,占总投资的 30%~45%。目前,在换热设备中,使 用量最大的是管壳式换热器。





技术参数 Technology parmeter

公称直径	管程数	管子数量	換热面积 公称值/计算值 管子长度 (m)					管程通道截面积 管程通 道流速为0.5m/sec时的 流量m/hr φ 25 × 2.5		公称压力	
											1500
			159	1	14	1.5/1.62	22.17	33.27			0.0044/0.0049
219	1	26	3/3.00	4/4.02	6/6.06	8/8.1		0.0082/0.0090	14.76/16.20	0.6	
	2	26	3/3.00	4/4.02	6/6.06	8/8.81		0.0041/0.0045	7.38/8.01	1.0	
273	1	44	5/5.08	7/5.18	10/10.26	14/13.72	21/20.63	0.0138/0.0152	24.84/27.36	1.6	
	2	40	5/4.62	6/6.19	9/9.33	12/12.47	19/18.76	0.0063/0.0069	11.24/12.42	2.5	
325	1	60	7/6.93	9/9.28	14/14.00	19/18.71	28/28.13	0.0188/0.0208	33.84/37.44	0.6	
	2	56	6/6.47	9/8.66	13/13.05	17/17.46	36/26.26	0.0088/0.0097	15.84/17.46	1.0	
400	1	119	14/13.47	18/18.41	28/27.76	37/37.10	55/55.8	0.0374/0.0412	67.32/74.16	1.6	
	2	110	13/12.70	17/17.02	26/25.66	34/34.20	50/51.58	0.0173/0.0190	31.14/34.20	2.5	