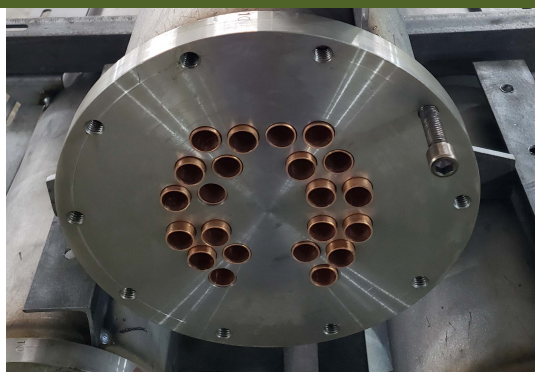
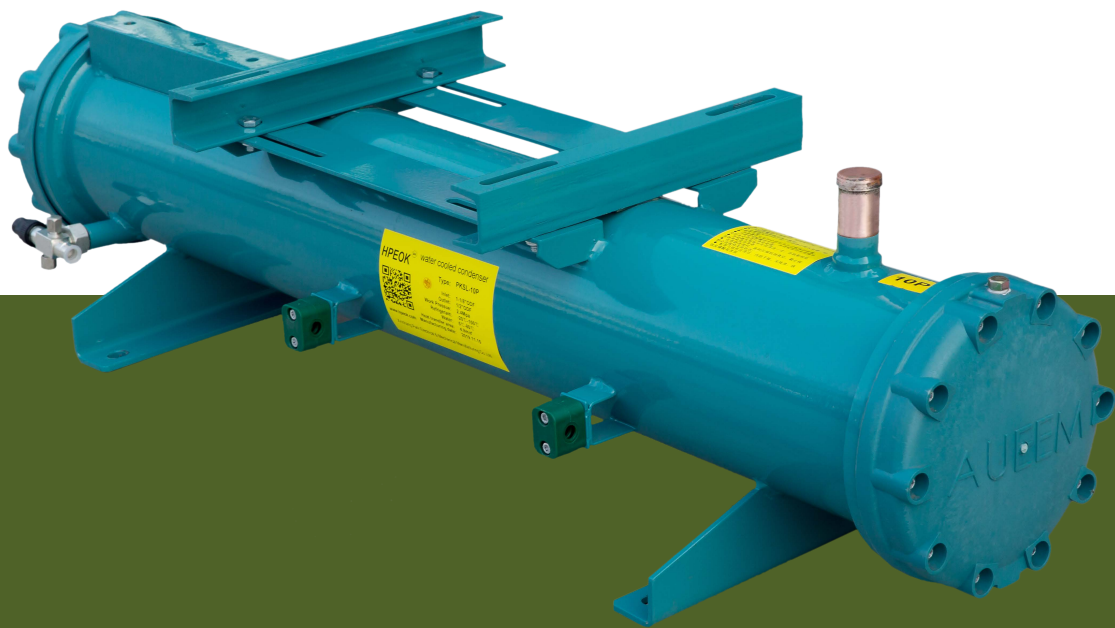


Top manufacture of Shell and Tube Water-Cooled Condenser

SHELL & TUBE WATER COOLED CONDENSERS



产品简介 | PRODUCT INTRODUCTION

PKSL系列壳管式水冷冷凝器由壳体、管板、换热管束、冷却水分配部件、冷却水及制冷剂进出管接头等组成的一个封闭式水冷冷凝器，广泛应用于冷冻、冷藏、农业、食品、化工等行业，也可配套于中央空调主机设备。

派尔克制冷制造的PKSL系列冷凝器拥有高效率、低能耗的优势，适用于CFC/HFC制冷剂。

HPEOK Refrigeration PKSL Series Shell & Tube Condensers are closed water-cooled condenser consisting of shell, tube sheet, heat exchange tube bundle, cooling water distribution parts, cooling water and refrigerant inlet and outlet pipe joints. It is widely used in refrigeration, agriculture, Food, chemical and other industries cooling unit. The Shell & Tube Condensers are manufactured to provide low pressure loss and high efficiency, and they are suitable for CFC/HFC refrigerants.

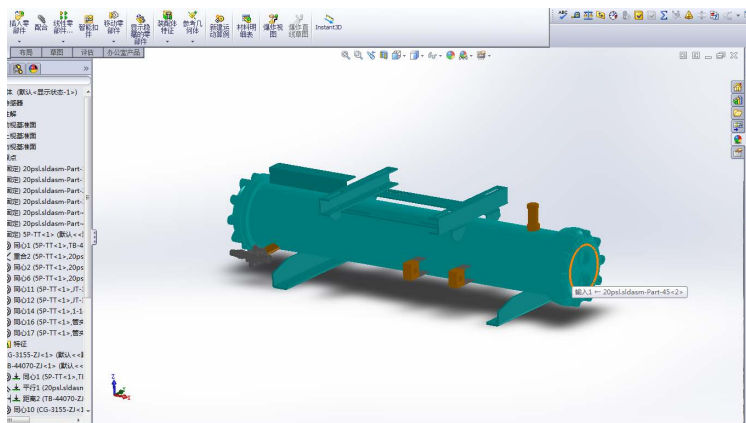
产品设计 | DESIGN OF PRODUCT

派尔克制冷坚持以工匠精神制造精品，严格按照ISO9001：2008国际质量管理体系运行。派尔克制冷拥有独立的设计研发团队，引进solidworks、UG等动态软件用以精确计算产品的三维状态，以便研发团队能方便容易地预测到理论设计和实际加工间的差异。与此同时，研发部紧密配合市场部，不断根据市场及客户要求调整产品结构，满足客户需求。

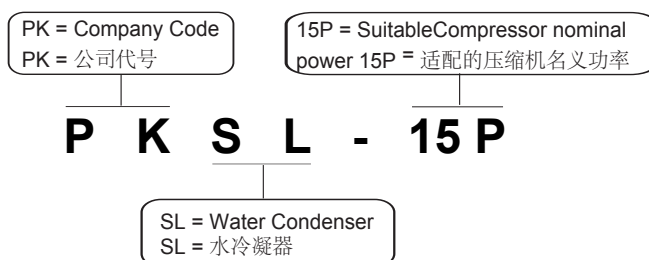
- 高效换热管采用强化的外螺纹紫铜管，确保产品换热足量；
- 高附着力的首创静电喷塑技术，使产品表面盐雾试验可达 500 小时以上；
- 多孔安装板设计满足了活塞机及涡旋机的安装，真正实现一机通用的效果；
- 一体化冷凝器支撑脚设计，既美观又便于部件安装；
- 防碰伤的内螺纹进液口。

HPEOK Refrigeration owns a professional R&D center, use solidworks and UG dynamic softwares to calculate products 3D state accurately, thus we can forecast the discrepancy between the theoretical design and practical machining easily.

- High efficient heat exchange tubes – using optimized copper tubes with male thread
- Corrosion resistant epoxy powder paint finish, 500 Hours salt spray tested
- Uniq mounting plate realizes the installation for both piston and scroll compressors, which realizes the common use in one plate.
- Integrated condenser support frame, beautiful and convenient to install parts
- Anti-collision internal thread inlet.



命名规则 | Model Nomenclature



技术参数 | TECHNICAL DATA

- 使用R22产品工况：冷凝温度 TK=40°C
冷却水（淡水）进水温度T1=30°C，出水温度T2=35°C，过冷度=3°C，
污垢系数 W=0.000043m² k/w；其他工况可根据客户需求特定设计制造。

- 最大工作压力/工作温度
 - 工作压力：2.4Mpa
 - 制冷剂侧：-20°C ~ 100°C
 - 冷却水侧：+5°C ~ +80°C

NOMINAL DATA: R22
Condensing temperature TK=40°C;
Cooling water(fresh water) inlet temperature T1=30°C;
Outlet hot water temperature T2=35°C; Super cooling=3°C,
Fouling Factor: W=0.000043m² k/w,
Max. allowable pressure: 2.4Mpa
Allowable temperature: Refrigerant side: 35°C ~ 55°C
Side of Coolant: 25°C ~ 40°C
Other operation condition can be customized due to users.

Parameter 选型参数						
Part No. 型号	Condensing Capacity 换热能力 (kw)	Load 负荷 (kw)		Max. Flow Rate 制冷剂最大流量		Pressure Drop 压力降 Mpa/bar
		$\Delta t_e=15k$	$\Delta t_e=10k$	m ³ /h	l/s	
PKSL-5P	14.70	15.20	10.10	2.75	0.76	0.011/0.11
PKSL-8P	19.70	21.50	14.28	2.75	0.76	0.014/0.14
PKSL-10P	27.30	29.50	18.30	6.42	1.78	0.032/0.32
PKSL-15P	32.20	36.20	24.20	6.42	1.78	0.032/0.32
PKSL-20P	44.80	47.60	29.40	8.56	2.38	0.033/0.33
PKSL-25P	51.30	51.10	34.10	8.56	2.38	0.033/0.33
PKSL-30P	59.20	63.50	45.30	1.71	2.98	0.039/0.39
PKSL-35P	71.00	77.70	51.80	10.71	2.98	0.039/0.39
PKSL-40P	88.70	95.70	68.40	18.33	5.12	0.032/0.32
PKSL-50P	100.60	124.90	83.30	18.33	5.12	0.032/0.32
PKSL-60P	130.70	157.10	104.70	23.32	6.48	0.032/0.32

- Δt_e is the temperature difference between condensing temperature and refrigerant inlet;
 Δt_e 为冷凝温度与制冷剂进口的温度差;
- All given performance data are based on R22 using in the air conditioning, if using R134a, heat exchange load=0.85; if using R407C, the heat exchange load =0.95;
 If operation Condition for R134A, check above table and convert it to 0.95
 如无特殊标定所指换热负荷均指空调工况下使用制冷剂 R22 时的热负荷及制冷负荷，如使用R134a=0.85；如使用 R407C=0.95

Specifications 水冷技术参数						
Part No. 型号	Total Length 总长 L (mm)	Mounting Feet (Length X Width) 安装脚尺寸 (L1 x W1) (mm)	Connection 接口尺寸		Dimensions (L x W x H) (mm) 规格尺寸 (mm)	Weight 重量 (kg)
			Inlet 进口 (ODF)	Outlet 出口 (SAE)		
PKSL-5P	1210	740×310	1-1/8	1-14UNS/Ø12	1220×415×303	43
PKSL-8P	1210	740×310	1-1/8	1-14UNS/Ø16	1220×415×303	45
PKSL-10P	1210	740×310	1-1/8	1-14UNS/Ø16	1220×415×303	47
PKSL-15P	1450	740×310	1-1/8	1-1/4-12UNF/Ø16	1460×454×323	50
PKSL-20P	1450	740×414	1-1/8	1-1/4-12UNF/Ø19	1460×454×323	75
PKSL-25P	1450	740×414	1-3/8	1-1/4-12UNF/Ø22	1460×454×323	79
PKSL-30P	1630	740×414	1-3/8	1-1/4-12UNF/Ø22	1640×454×323	84
PKSL-35P	1630	740×414	1-5/8	1-3/4-12UNF/Ø28	1640×454×323	86
PKSL-40P	1630	740×414	1-5/8	1-3/4-12UNF/Ø28	1640×454×323	89
PKSL-50P	1630	740×414	1-5/8	1-3/4-12UNF/Ø28	1640×454×323	95
PKSL-60P	1630	740×414	1-5/8	1-3/4-12UNF/Ø28	1640×454×323	97

The technical drawings illustrate the physical dimensions and optional configurations of the PKSL unit. The top view shows the overall length L, mounting foot length L1, and width W. The side view shows the height H and the distance between mounting feet L2. The bottom view shows the width W1 and the distance between mounting feet W2. The drawings also indicate the location of the inlet (IN) and outlet (OUT) ports. An optional configuration is shown with a different mounting foot design.



Manufacture @ Nantong :
AUEEM REFRIGERATION CO., LIMITED
No. 22, Gaonan District, Dinyan Town, Rugao City,
Jiangsu Prov., China
Tel: +86-513-88536178
Fax: +86-513-88560575

Manufacture @ Xinchang :
Xinchang Park Electrical & Mechanical Manufacturing Co., Ltd.
NO. 1009, Xinchang Avenue West Road, Xinchang,
Zhejiang prov., China
Tel: +86-575-86282516
Fax: +86-575-86297578

www.hpeok.com

南通工厂：

南通欧意姆制冷设备有限公司
江苏省如皋市丁堰镇皋南社区22组
电话: 0513-88536178
传真: 0513-88560575

新昌工厂：

新昌县派尔克机电制造有限公司
浙江省绍兴市新昌县新昌大道西路1009号
电话: 0575-86282516
传真: 0575-86297578

HPEOK®