

## Precision Chiller

### EN系列精密激光冷却机

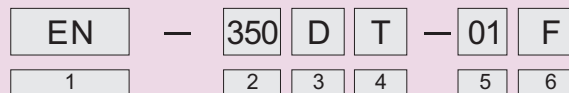
适用于各种不同功率的二氧化碳激光器、固体激光器、半导体激光器

主要特点:

1. 采用高压静电喷塑处理, 高雅别致, 经久耐用;
2. 制冷及电气系统的关键元件均采用国际名牌产品, 保证设备具有优异的品质和良好的安全可靠性;
3. 采用优质的不锈钢冷水循环泵, 流量大、扬程高、噪音低、寿命长; 不锈钢水箱、管路、不锈钢阀门永无生锈之忧;
4. 控制系统采用液晶电脑控制器, CPU全自动控制, 可实现人机对话, 操作简单、直观。控制精度高达 $\pm 0.1^{\circ}\text{C}$ ; 具有故障自动诊断功能, 直接将故障点显示在屏幕上, 提示用户快速处理。并可将故障信号通过数据线直接传输给CNC数控系统, 避免造成元件和设备损坏。
5. 提供多重保护功能和无源报警端子、远程控制端子, 易于实现CNC的集中控制和监控;
6. 其中“双温型”精密水冷却机在为光路提供稳定、精确的水温控制的同时, 又提供一路与环境温度相近的水温用于镜片冷却, 解决了镜片低温水冷却时结露造成的损坏, 是激光设备整机冷却的最佳选择。

### 技术参数:

项目 \ 型号		EN-系列精密激光冷却机										
		-15	-25	-35	-50	-80	-120	-150	-180	-250	-350	-500
冷却能力	KW	1.5	2.5	3.5	5	8	12	15	18	25	35	50
	Kcal/h	1300	2150	3000	4300	6000	10300	12900	15500	21500	30000	43000
电源		AC 220V 50Hz		AC3P ~ 380V/50Hz (其它电源制式订货时特殊注明)								
额定功率 KW		1	2	2.5	3.5	4.5	5	6	8	11	15	25
额定电流 A		5	7	7	9.5	10	12	13	17	22	34	50
水泵流量L/min		16	16	25	25	33	33	66	66	116	116	116
水泵扬程 M		45(特殊扬程订货时注明)										
水温范围 $^{\circ}\text{C}$		固定温度型: 15~50 $^{\circ}\text{C}$ ; 室温同调型: (室温 $\pm 9^{\circ}\text{C}$ ), 控制精度 $\pm 0.1^{\circ}\text{C}$										
环境温度 $^{\circ}\text{C}$		10~45 $^{\circ}\text{C}$										
接口	出水口	3/8"	1/2"	1/2"	3/4"	3/4"	1"	1"	1"	1"	1"	1-1/4"
尺寸	回水口	3/8"	1/2"	1/2"	3/4"	3/4"	1"	1"	1"	1"	1"	1-1/4"
外形尺寸		400*450*840	400*450*900	500*550*1000	550*550*1200	600*650*1400	750*700*1400	800*800*1600	800*850*1600	850*1500*1800	950*1700*1800	100*1900*2050
水箱容积L		15	30	30	40	60	100	120	150	180	200	400



1. 产品系列代号: EN - 精密激光器用水冷却机
2. 制冷量代码: (×100W) 如:350 表示350×100W, 制冷量为 35000W;
3. 结构形式:  
D: 双温型 单温型不标注。
4. 附加功能:  
R: 带加热型: 水温低时, 自动加热到设置水温; T: 高精度型: 出水温度控制精度 $\pm 0.1^{\circ}\text{C}$ ;  
标准机型不标注。
5. 设计序号
6. 用户特殊要求代号  
F 随机附件有特殊要求; K 接口尺寸有特殊要求;  
S 颜色有特殊要求; V 加装流量报警功能;

**注: 产品规格如有更新, 恕不另行通知。**





# Precision Chiller

## EN COOLING MACHINE OF LASER WATER

### The scope of application:

Applicable to a variety of different power :

Carbon dioxide laser

Solid-state lasers

Semiconductor lasers

### Functions and features:

#### Notes:

1. Cooling capacity measured at the temperature of 35 °C ambient and 25 °C water inflow temperature, 27 °C water outflow temperature .
2. Security features: lack of reverse-phase protection, compressor, water-pump motor overload protection relay, the compressor internal overheating protection; refrigeration system high pressure / low pressure anomaly protection, condensation of high temperature protection; abnormal protection of ambient temperature, water temperature, flow.
3. No power alarm: There is output when the power closed.
4. The company has developed a computer-wide Chinese-English LCD controller and the temperature fixed at room temperature with the organic combination of transfer, the computer controller in the same temperature control to achieve the two functions, users can choose. Two temperature limits are under way: 15 °C.
5. By the layout constraints, parameters of the cooling capacity which can be achieved 130kW in fact marked to 50kW in the parameter table.
6. The parameter table is the standard model. We can also take the special orders for customers

EN	—	350	D	T	—	01	F
1		2	3	4		5	6

- 1: Products code: MCWL cooling machine of precision water
- 2: Cooling capacity code: (? 100W): 350?100W Equals 35000W cooling capacity
- 3: The structure of the form:  
D: Two-temperature  
Single-temperature model does not mark
- 4: Additional features:  
R: with heating type: automatically heated to the temperature settings when the water temperature is low  
T : High-precision type: Water temperature control accuracy is ? 0.1 °C  
Standard non-marking
- 5: Design serial number
- 6: The special requirements of the user code:  
F - random annex with special requirements;  
K - Interface Dimensions with special requirements;  
S - There are special requirements for color;  
V - the installation of traffic police functions;



**Note: Product specifications are subject to updates without notice**