

水泵和水箱系列

UNIT MODEL KNOWLEDGE

循环水泵规格表

Specification Table of Water Pump

型号	管径 Diameter	流量 Flow	扬程 Pump lift	功率 Power
		M³/H	M	KW
TD40-20/2	DN40	12.5	20	1.5
TD40-30/2	DN40	25	30	4
TD50-18/2	DN50	25	18	2.2
TD50-24/2	DN50	25	24	5.5
TD50-35/2	DN50	30	35	3
TD65-22/2	DN65	40	22	4
TD65-34/2	DN65	50	34	7.5
TD65-40/2	DN65	50	40	11
TD65-50/2	DN65	50	50	15
TD80-18/2	DN80	50	18	4
TD80-22/2	DN80	50	22	5.5
TD80-28/2	DN80	50	28	7.5
TD80-30/2	DN80	80	30	11
TD80-38/2	DN80	80	38	15
TD80-47/2	DN80	80	47	18.5
TD100-17/2	DN100	80	17	5.5
TD100-22/2	DN100	80	22	7.5
TD100-27/2	DN100	100	27	11
TD100-33/2	DN100	100	33	15
TD100-40/2	DN100	100	40	18.5
TD100-48/2	DN100	100	48	22
TD125-22/4	DN125	160	22	15
TD125-28/4	DN125	160	28	18.5
TD125-32/4	DN125	160	32	22
TD125-40/4	DN125	160	40	30
TD125-48/4	DN125	160	48	37
TD150-21/4	DN150	200	21	18.5
TD150-25/4	DN150	200	25	22
TD150-33/4	DN150	200	33	30
TD150-40/4	DN150	200	40	37
TD200-24/4	DN200	300	24	30
TD200-35/4	DN200	300	33	45
TD200-44/4	DN200	300	44	55

不锈钢水箱规格表

Specification Table of Stainless steel water tank

圆型 Round	储水量 Water storage quantity	尺寸 Size		进水口 Water inlet	出水口 Water outlet	补水口 Water tap water
	M³	直径 MM Diameter (MM)	高 MM Height (MM)	(MM)	(MM)	(MM)
	0.5	880	1150	DN50	DN50	DN20
	1	1080	1400	DN50	DN50	DN20
	1.5	1080	1800	DN50	DN50	DN20
	2	1300	2000	DN65	DN65	DN20
	3	1500	2200	DN65	DN65	DN20
	4	1700	2200	DN80	DN80	DN25
	5	1900	2200	DN80	DN80	DN25
	6	2000	2200	DN80	DN80	DN25
	8	2150	2400	DN100	DN100	DN25
	10	2300	2750	DN100	DN100	DN25
方型 Square	储水量 Water storage quantity	尺寸 Size		进水口 Water inlet	出水口 Water outlet	补水口 Water tap water
	M³	长 MM Length (MM)	宽 MM Width (MM)	高 MM Height (MM)	(MM)	(MM)
	6	3000	2000	1000	DN80	DN80
	8	4000	2000	1000	DN100	DN100
	10	5000	2000	1000	DN100	DN100
	12	6000	2000	1000	DN100	DN100
	16	4000	2000	2000	DN150	DN150
	20	5000	2000	2000	DN150	DN150
	30	5000	3000	2000	DN200	DN200
	50	5000	2000	2000	DN200	DN200
	100	10000	2000	2000	DN200	DN200
	200	10000	3000	2000	DN200	DN50



水泵的选型 Selection of the water pump:

一、冷却水流量：一般根据产品样本提供数值选取，或按照以下公式进行计算
I. Generally provide the value selection according to the product sample, or calculate according to the following formula.

$$L(m^3/h) = \frac{Q(kw)}{(4.5\sim5)^\circ C \times 1.163} \times (1.15\sim1.2)$$

二、冷冻水流量：根据产品样本提供数值选取，或按照以下 公式进行计算

II. Refrigerating water flow: generally provide the value selection according to the product sample, or calculate according to the following formula.

$$L(m^3/h) = \frac{Q(kw)}{(4.5\sim5)^\circ C \times 1.163}$$

三、扬程 Pump lift:

- 阻力 Resistance: (1)一般冷冻机蒸发器及末端设备的水阻力为 0.5~0.7kgf/c m²；
The water resistance of general chiller evaporator and the end equipment is 0.5~0.7kgf/c m²
- (2)有的末端设备有压力感应电磁阀应当考虑电磁阀阻力(一般为 4kgf/c m²)；
If there's pressure induction on some end equipments, the electromagnetic valve shall consider the resistance;
- (3)制冷系统水管路沿程和局部阻力损失一般为 0.7~1kgf/c m²；
The water pipeline linear and partial resistance losses in the refrigerating system are generally 0.7~1kgf/c m²；
- (4)管路中一般一个弯头的阻力损失为 0.2kgf/c m²；
Generally the resistance loss of an elbow in the pipeline is 0.2kgf/c m²；
- 2、冷却泵进入冷凝器的扬程一般为 1.5~2kgf/c m²；
The pump lift of the cooling pump entering the condenser is generally 1.5~2kgf/c m²
- 3、冷冻泵的扬程根据以上公式及现场情况选择。
The pump lift of the refrigerating pump could be selected either by the above formula or the situation on the scene.



膨胀水箱的选型 Selection of the expansion water tank:

膨胀水箱一般按照冷冻水系统管路总水容量的 2%~3%
The expansion tank is usually selected according to 2~3% of the total water capacity of the refrigerating water system pipelines.

水系统水管管径的计算 Calculation of the pipeline diameter of the water system
一般制冷系统中水管径可按照如下公式计算：

The pipeline diameter in general refrigerating system could be calculated according to the following formula:

$$DN=18.8 \times [SQRT(Q/U)]$$

SQRT开平方 rooting

Q: 所求管段的水流量

: water flow of the pipe segment to be solved

U: 所求管段允许的水流速

: water flow speed allowed for the pipe segment to be solved

流速的确定：一般当管径在 DN100~DN250 之间时，流速为 1.5m/s

左右，小于 DN100 管径，流速小于 1.0m

Determination of the flow speed: generally when the pipeline diameter ranges from DN100~DN250, the flow speed is around 1.5m/s. When the diameter is less than DN100, the speed is less than 1.0m