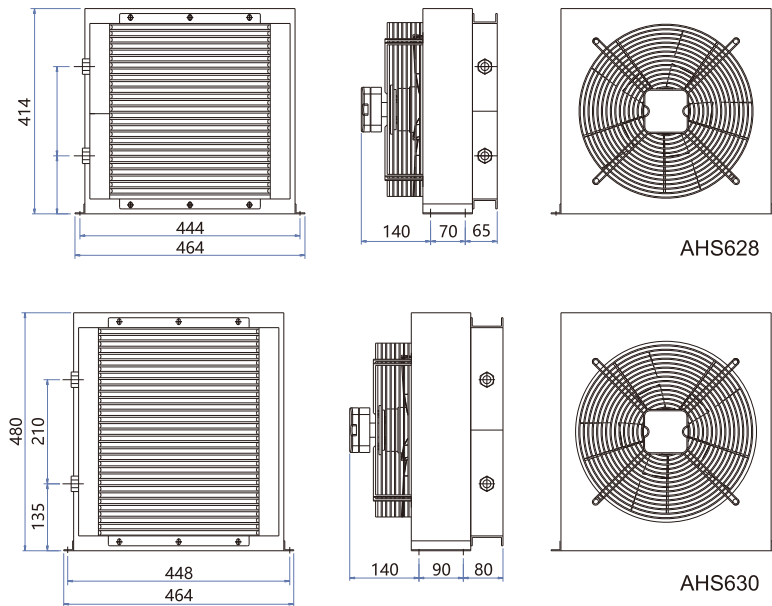


» AHS628 AHS630

Mainly applied to cooling of principal axis, low temperature cooling system of small fluxes.  
 主要适用于主轴冷却、小流量低温度冷却系统



Type 型号	Flux [L/min] 流量	Motor Voltage [V] 电机电压	Frequency [Hz] 频率	Consumed Power [w] 消耗功率	Fan speed [rpm] 风扇转速	Noise level [dB(A),1m] 噪声	Working Pressure [bar] 工作压力
AHS628-CA2	20~100	3Φ 380	50/60	80	1380/1600	65	20
AHS628-CA3		1Φ 220	50/60	80	1380/1600	65	20
AHS628-CD1		DC 12V	/	200	3000	76	20
AHS628-CD2		DC 24V	/	200	3000	76	20

Type 型号	Flux [L/min] 流量	Motor Voltage [V] 电机电压	Frequency [Hz] 频率	Consumed Power [w] 消耗功率	Fan speed [rpm] 风扇转速	Noise level [dB(A),1m] 噪声	Working Pressure [bar] 工作压力
AHS630-CA2	20~100	3Φ 380	50/60	80	1380/1600	65	20
AHS630-CA3		1Φ 220	50/60	80	1380/1600	65	20
AHS630-CD1		DC 12V	/	200	3000	76	20
AHS630-CD2		DC 24V	/	200	3000	76	20

In order to avoid cracking , when a cooler is installed in the return oil circuit, a bypass unloading valve must be parallelly connected. And make sure the unloading valve can be opened preferentially when the decompression valve reaches the pressure peak. If there is a pulse in the return oil of system or the oil flow is very big, suggest to choose the self-circulating cooling system from Deo, so that you can keep the whole system stable and reliable.

为保护冷却器不致破裂，当冷却器安装于回油回路时，必需加装旁通卸载阀，与冷却器并联，并且确认泄压阀遭遇压力峰值时，能够优先打开卸载。如果系统回油有脉冲或者流量很大，建议选用迪奥自循环冷却系统，以保证整个系统的稳定和可靠。

## DW oil & water cooler of brass-soldered plate model DW钎焊板式油&水冷却器

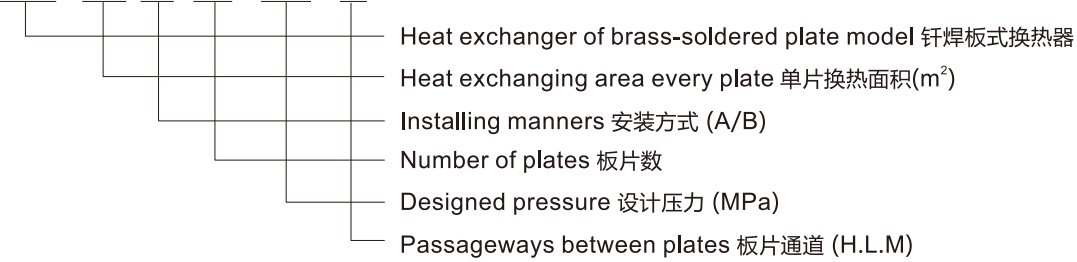


» Oil & water cooler of brass-soldered plate model 钎焊板式油&水冷却器

» Oil & water cooler of brass-soldered plate model 钎焊板式油&水冷却器

Marking methods of product models 产品型号表示方法

**DW-05-A-50-3.0-H**



Passageways of heat exchanger

DW heat exchangers can provide two kinds of plates and three forms of passageways

**H-model plates:** Big intersection angle increases resistance of fluid thereby make the plates get higher efficiency of heat-exchanging.

**L-model plates:** Small intersection angle decrease pressure drop and resistance of fluid, thereby make the plates inefficient in heat exchanging.

**H-passageway:** Made up of two H-model plates, it has high heat-exchanging quotiety and low pressure drop.

**L-passageway:** Made up of two L-model plates, it has low heat-exchanging quotiety and low pressure drop.

**M-passageway:** Made up of a H-model plate and a L-model plate, it has medium heat-exchanging quotiety and medium pressure drop.

换热器的通道

DW型换热器可提供两种不同的板片和三种形式的通道。

**H型板片:** 大夹角加大流体的阻力从而获得更高的换热效率。

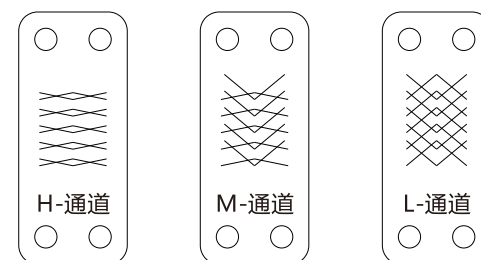
**L型板片:** 小夹角减小压降并减小流体阻力, 换热效率低。

**H通道:** 由两片H型板片组成, 高换热系数, 低压降。

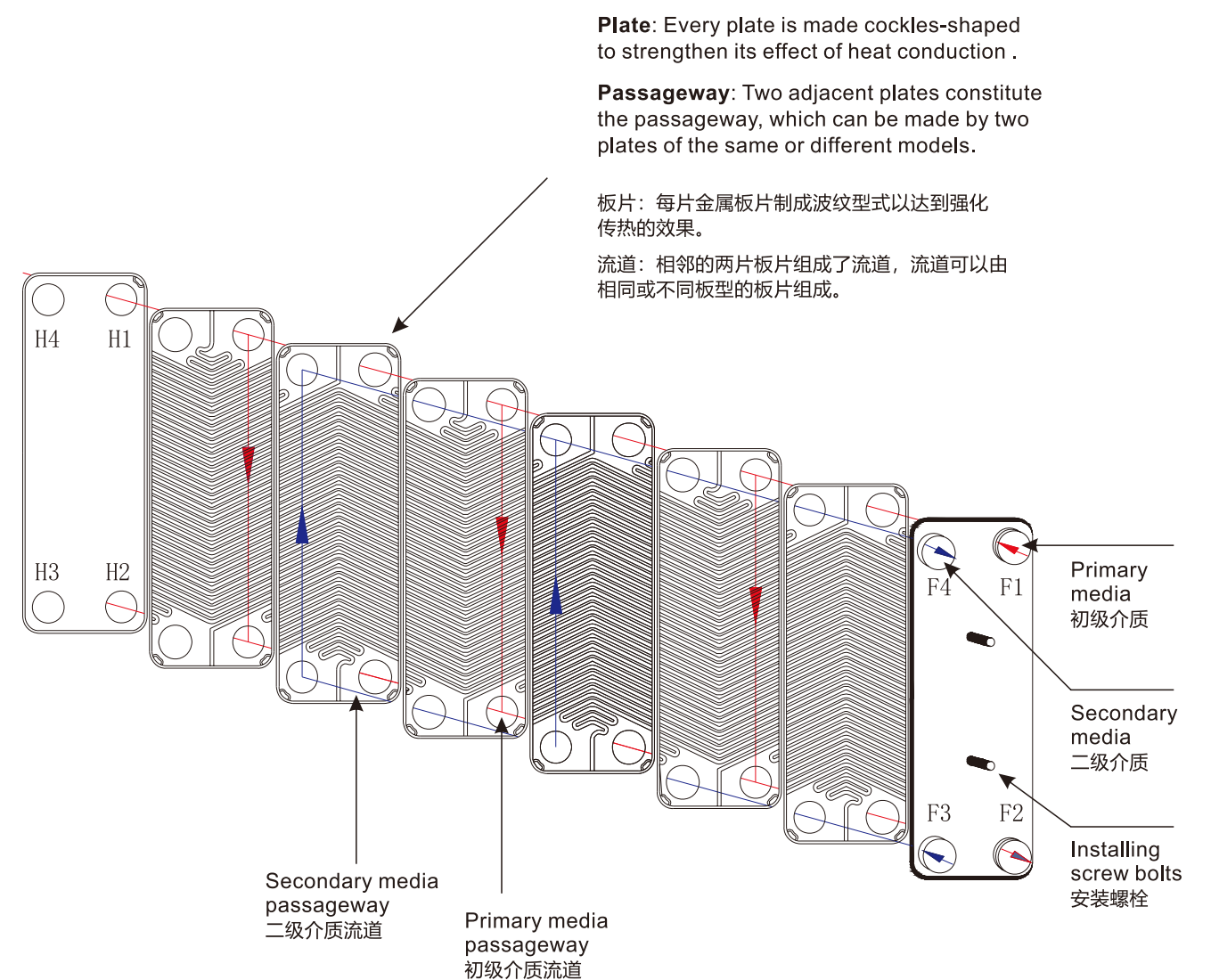
**L通道:** 由两片L型板片组成, 低换热系数, 低压降。

**M通道:** 由一片H型板片和一片L型板片组成, 中等换热系数和中等压降。

Between plate plates  
板片通道



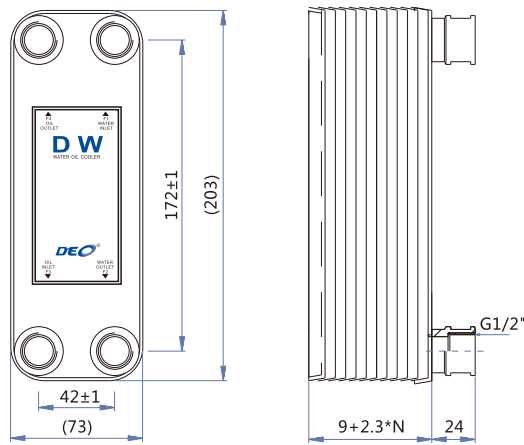
Product structure 产品结构



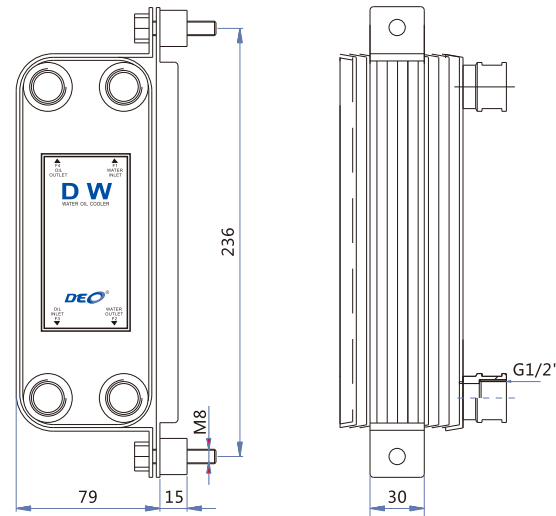


## » DW-01

Dimensional diagram A 尺寸图



Dimensional diagram B 尺寸图

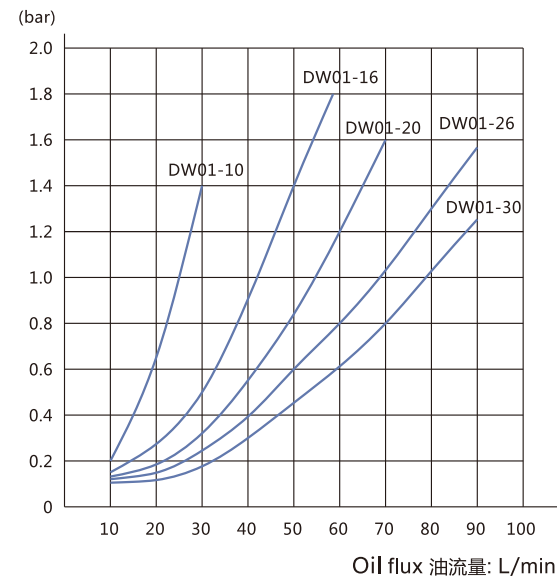
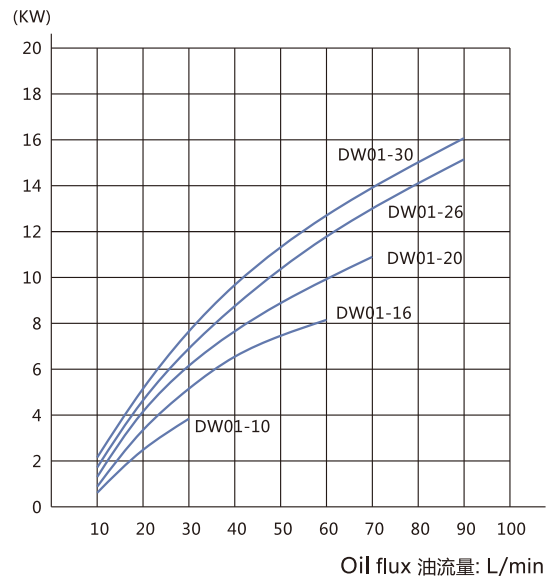


**Input parameters of performance curve**

Quality of oil : ISO VG46 Oil / Water : 2/1  
 T<sub>in</sub> (oil): 60°C T<sub>in</sub> (water): 20°C

**性能曲线输入参数**

油品: ISO VG46 油/水流量比例: 2/1  
 进油温度: 60°C 进水温度: 20°C



Technical Parameters 技术参数

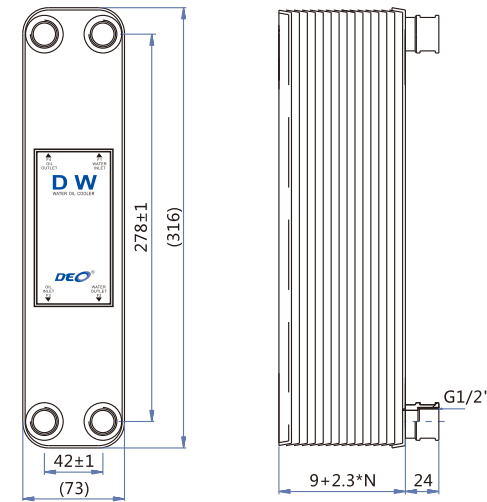
Designed pressure 设计压力 [Mpa]	Tested pressure 试验压力 [Mpa]	Designed temperature 设计温度 [°C]	Cubage 容积 [L]	Heat-exchanging acreage 换热面积 [m <sup>2</sup> ]	Weight 重量 [kg]	Plate material 板片材料
3.0	4.5	-196~+200°C	0.02*N	0.013*N	0.4+0.05*N	316L

- N represents layers of plates
- The materials of DW-01 standard plates include AISI 316L stainless steel. If you need plates made of other materials such as AISI 304L and SMO254, please contact NINGBO DEO MACHINERY CO.LTD.

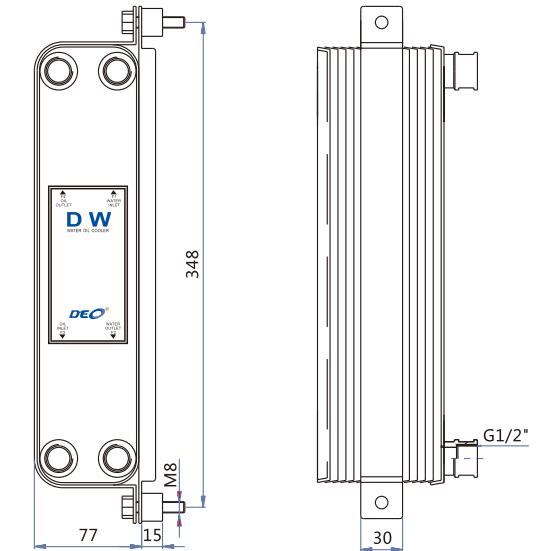
- N代表板片层数
- DW-01型标准板片材料是AISI 316L不锈钢, 如需 AISI 304L、SMO254等其他材料, 请与迪奥公司联系

## » DW-02

Dimensional diagram A 尺寸图



Dimensional diagram B 尺寸图

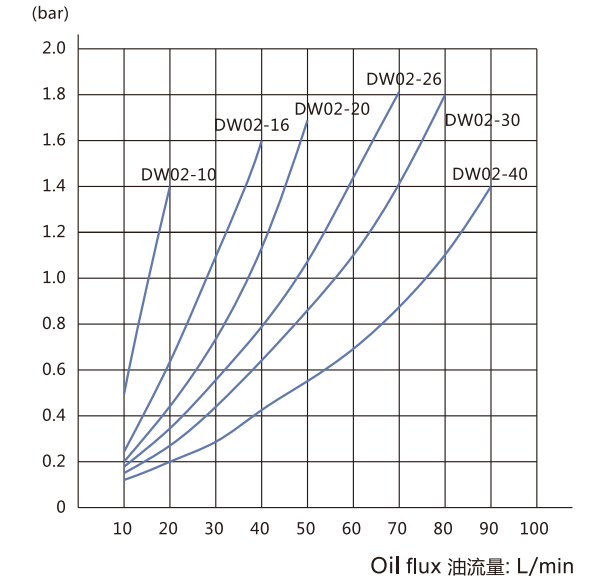
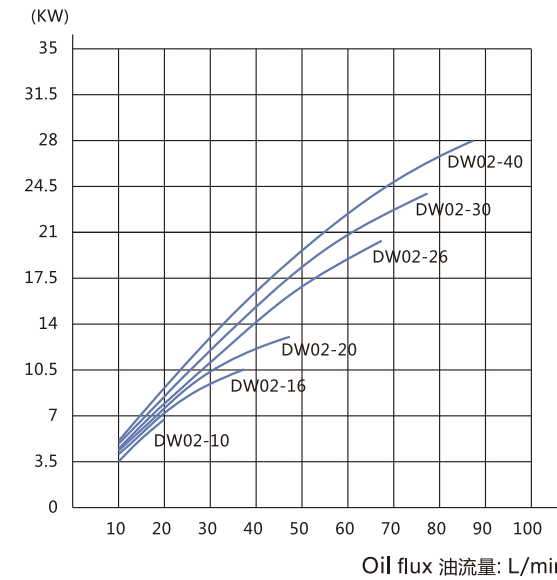


**Input parameters of performance curve**

Quality of oil : ISO VG46 Oil / Water : 2/1  
 T<sub>in</sub> (oil): 60°C T<sub>in</sub> (water): 20°C

**性能曲线输入参数**

油品: ISO VG46 油/水流量比例: 2/1  
 进油温度: 60°C 进水温度: 20°C



Technical Parameters 技术参数

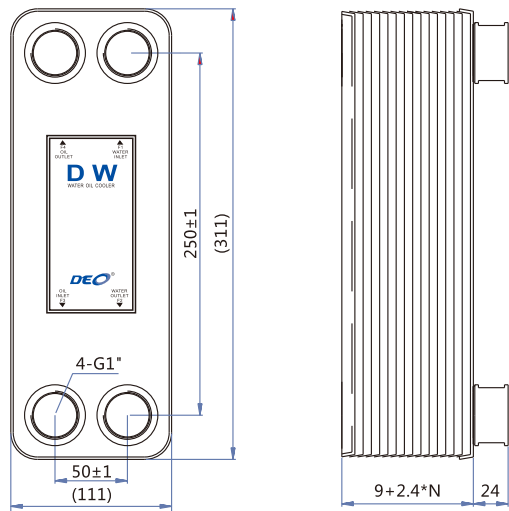
Designed pressure 设计压力 [Mpa]	Tested pressure 试验压力 [Mpa]	Designed temperature 设计温度 [°C]	Cubage 容积 [L]	Heat-exchanging acreage 换热面积 [m <sup>2</sup> ]	Weight 重量 [kg]	Plate material 板片材料
3.0	4.5	-196~+200°C	0.04*N	0.021*N	0.6+0.07*N	316L

- N represents layers of plates
- The materials of DW-02 standard plates include AISI 316L stainless steel. If you need plates made of other materials such as AISI 304L and SMO254, please contact NINGBO DEO MACHINERY CO.LTD.

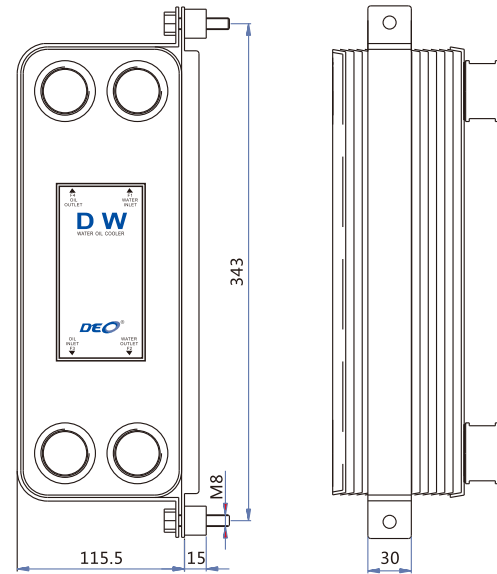
- N代表板片层数
- DW-02型标准板片材料是AISI 316L不锈钢, 如需 AISI 304L、SMO254等其他材料, 请与迪奥公司联系

### » DW-03

Dimensional diagram A 尺寸图



Dimensional diagram B 尺寸图

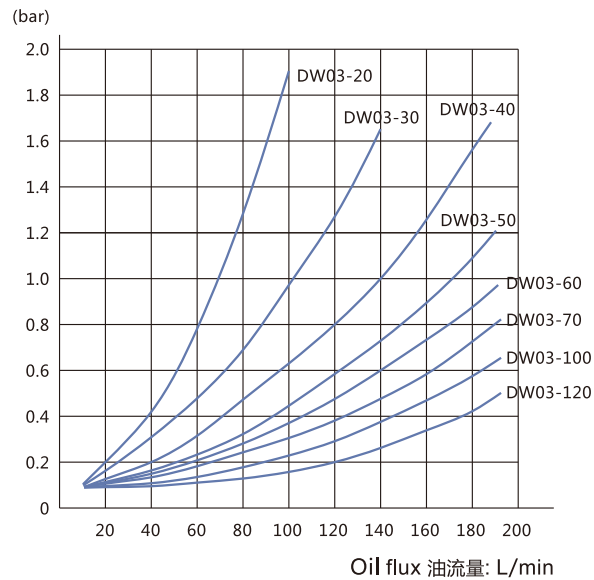
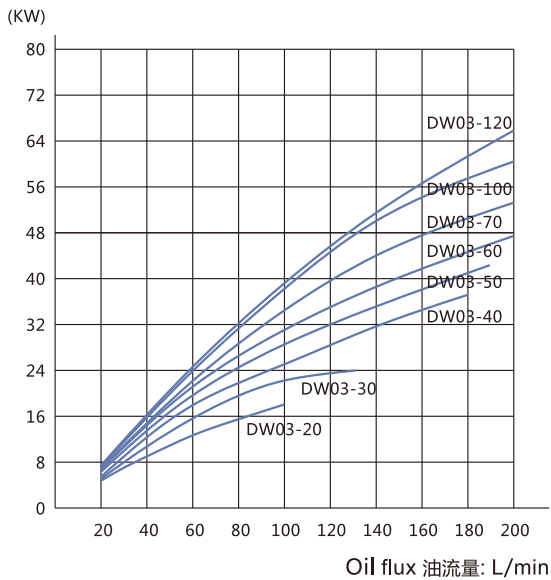


**Input parameters of performance curve**

Quality of oil : ISO VG46 Oil / Water : 2/1  
 T<sub>in</sub> (oil): 60°C T<sub>in</sub> (water): 20°C

**性能曲线输入参数**

油品: ISO VG46 油水流量比例: 2/1  
 进油温度: 60°C 进水温度: 20°C



Technical Parameters 技术参数

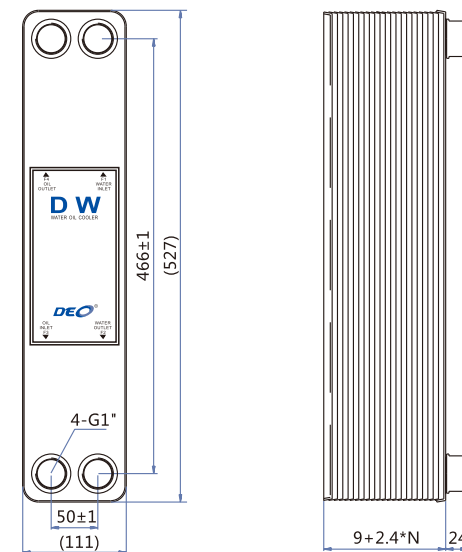
Designed pressure 设计压力 [Mpa]	Tested pressure 试验压力 [Mpa]	Designed temperature 设计温度 [°C]	Cubage 容积 [L]	Heat-exchanging acrage 换热面积 [m <sup>2</sup> ]	Weight 重量 [kg]	Plate material 板片材料
3.0	4.5	-196~+200°C	0.05*N	0.028*N	1.2+0.13*N	316L

- N represents layers of plates
- The materials of DW-03 standard plates include AISI 316L stainless steel. If you need plates made of other materials such as AISI 304L and SMO254, please contact NINGBO DEO MACHINERY CO.LTD.

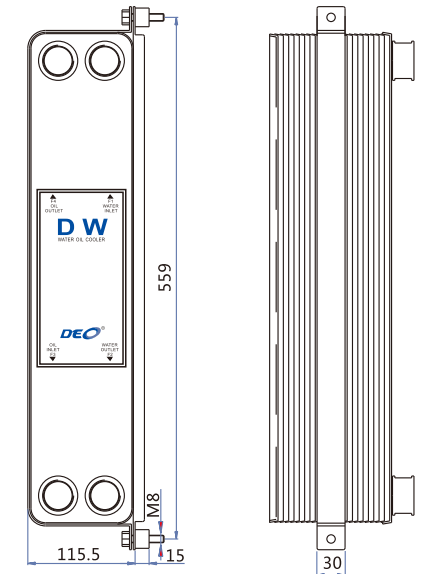
- N代表板片层数
- DW-03型标准板片材料是AISI 316L不锈钢, 如需 AISI 304L、SMO254等其他材料, 请与迪奥公司联系

### » DW-04

Dimensional diagram A 尺寸图



Dimensional diagram B 尺寸图

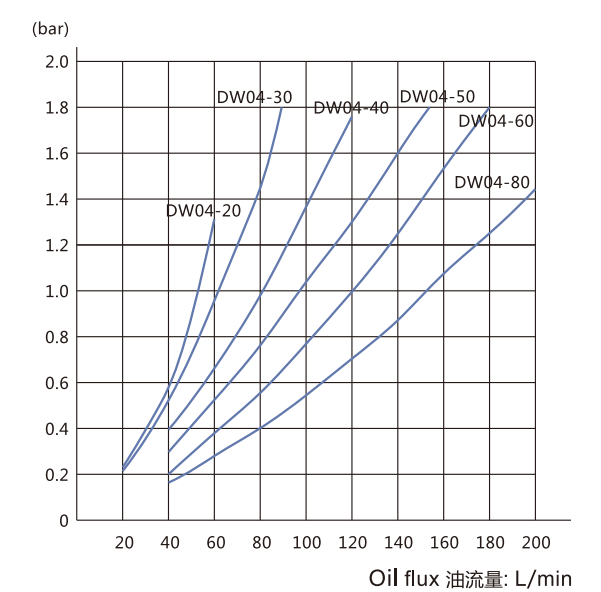
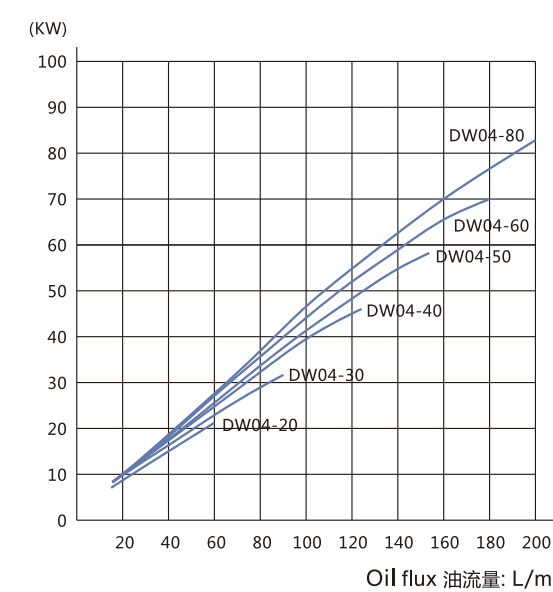


**Input parameters of performance curve**

Quality of oil : ISO VG46 Oil / Water : 2/1  
 T<sub>in</sub> (oil): 60°C T<sub>in</sub> (water): 20°C

**性能曲线输入参数**

油品: ISO VG46 油水流量比例: 2/1  
 进油温度: 60°C 进水温度: 20°C



Technical Parameters 技术参数

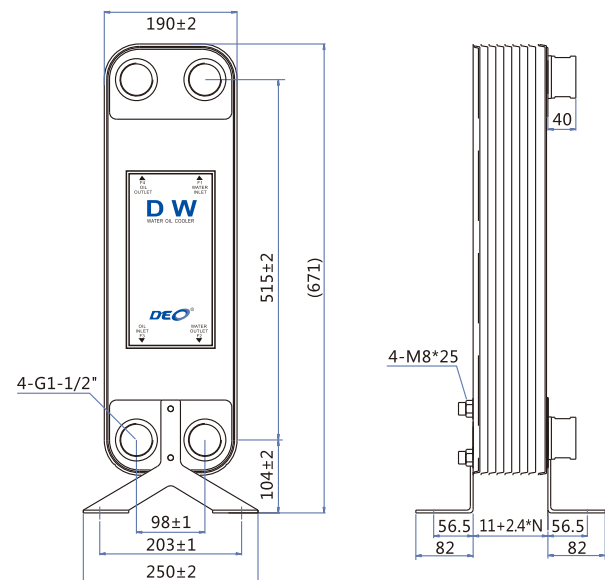
Designed pressure 设计压力 [Mpa]	Tested pressure 试验压力 [Mpa]	Designed temperature 设计温度 [°C]	Cubage 容积 [L]	Heat-exchanging acrage 换热面积 [m <sup>2</sup> ]	Weight 重量 [kg]	Plate material 板片材料
3.0	4.5	-196~+200°C	0.094*N	0.052*N	1.8+0.23*N	316L

- N represents layers of plates
- The materials of DW-04 standard plates include AISI 316L stainless steel. If you need plates made of other materials such as AISI 304L and SMO254, please contact NINGBO DEO MACHINERY CO.LTD.

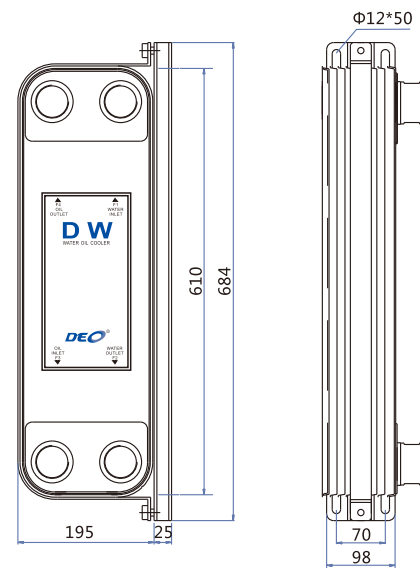
- N代表板片层数
- DW-04型标准板片材料是AISI 316L不锈钢, 如需 AISI 304L、SMO254等其他材料, 请与迪奥公司联系

## » DW-05

Dimensional diagram A 尺寸图



Dimensional diagram B 尺寸图

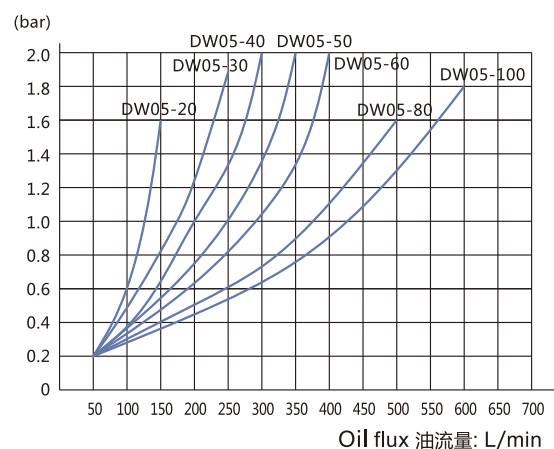
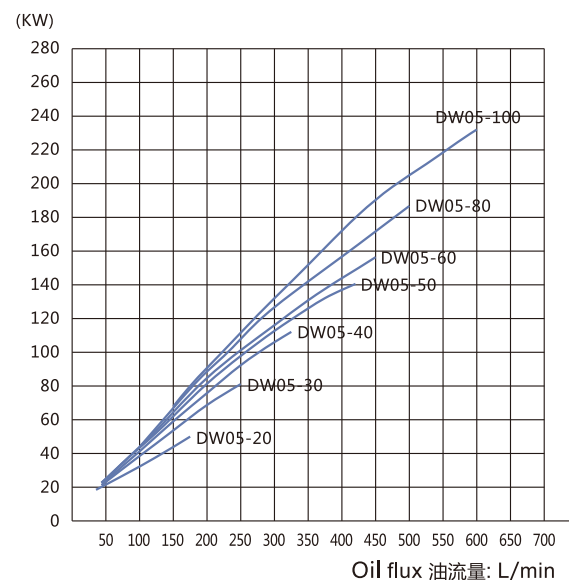


**Input parameters of performance curve**

Quality of oil : ISO VG46 Oil / Water : 2/1  
 T<sub>in</sub> (oil): 60°C T<sub>in</sub> (water): 20°C

**性能曲线输入参数**

油品: ISO VG46 油水流量比例: 2/1  
 进油温度: 60°C 进水温度: 20°C



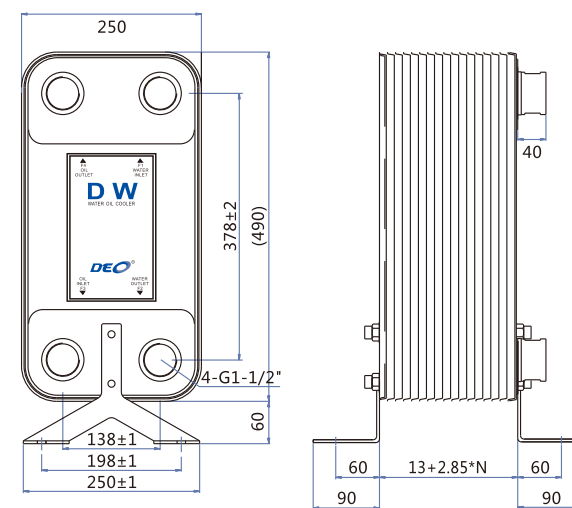
Technical Parameters 技术参数						
Designed pressure 设计压力 [Mpa]	Tested pressure 试验压力 [Mpa]	Designed temperature 设计温度 [°C]	Cubage 容积 [L]	Heat-exchanging acreage 换热面积 [m <sup>2</sup> ]	Weight 重量 [kg]	Plate material 板片材料
3.0	4.5	-196~+200°C	0.21*N	0.095*N	4.6+0.44*N	316L

- N represents layers of plates
- The materials of DW-05 standard plates include AISI 316L stainless steel. If you need plates made of other materials such as AISI 304L and SMO254, please contact NINGBO DEO MACHINERY CO.LTD.
- Over 100 plates of DW-05B model will be installed with two sets of brackets.

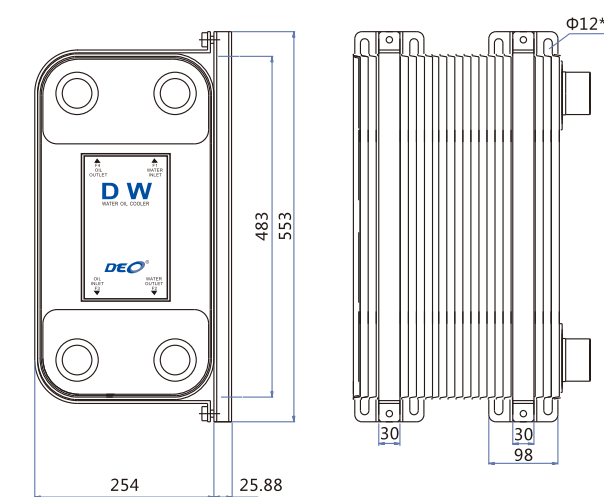
- N代表板片层数
- DW-05型标准板片材料是AISI 316L不锈钢, 如需 AISI 304L、SMO254等其他材料, 请与迪奥公司联系
- DW-05B型100片以上采用两套支架安装

## » DW-06

Dimensional diagram A 尺寸图



Dimensional diagram B 尺寸图

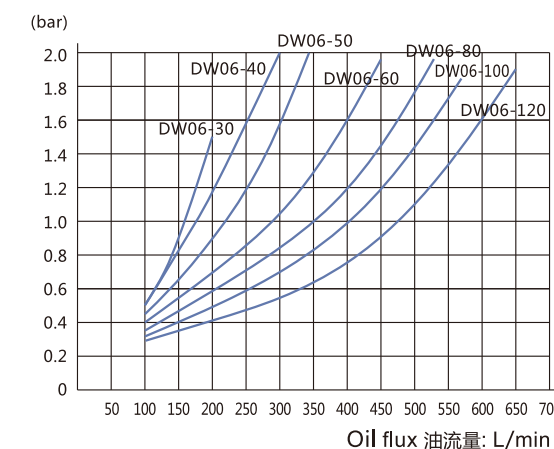
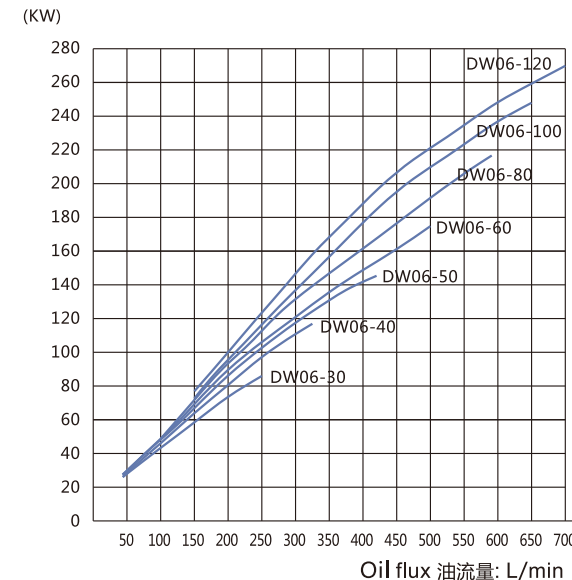


**Input parameters of performance curve**

Quality of oil : ISO VG46 Oil / Water : 2/1  
 T<sub>in</sub> (oil): 60°C T<sub>in</sub> (water): 20°C

**性能曲线输入参数**

油品: ISO VG46 油水流量比例: 2/1  
 进油温度: 60°C 进水温度: 20°C



Technical Parameters 技术参数						
Designed pressure 设计压力 [Mpa]	Tested pressure 试验压力 [Mpa]	Designed temperature 设计温度 [°C]	Cubage 容积 [L]	Heat-exchanging acreage 换热面积 [m <sup>2</sup> ]	Weight 重量 [kg]	Plate material 板片材料
3.0	4.5	-196~+200°C	0.25*N	0.136*N	6.5+0.42*N	316L

- N represents layers of plates
- The materials of DW-06 standard plates include AISI 316L stainless steel. If you need plates made of other materials such as AISI 304L and SMO254, please contact NINGBO DEO MACHINERY CO.LTD.
- Over 100 plates of DW-06B model will be installed with two sets of brackets.

- N代表板片层数
- DW-06型标准板片材料是AISI 316L不锈钢, 如需 AISI 304L、SMO254等其他材料, 请与迪奥公司联系
- DW-06B型100片以上采用两套支架安装

水冷却器  
Water cooler



