

» **DFT series** Applied to construction machinery
工程机械用

» **Technical data of DFT 技术参数**

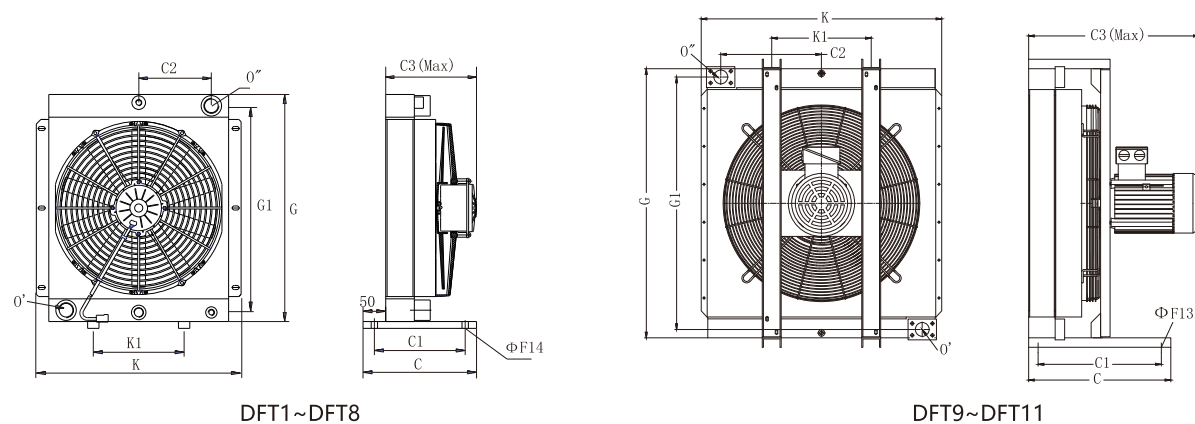


Features

- Highly efficient cooling systems made of Aluminium.
- High performance and working pressure—even for heavy duty of hydraulic or lubrication applications.
- Maximum working pressure
DFT1-DFT8 16bar
DFT9-DFT11 10bar
- Wide application to transmission systems, engines, hydraulic and lubricating systems etc. They may also act as independent coolers.
- This model of cooler can be collocated with 12V/24V DC generator, 220v/380v AC generator or fans driven by hydraulic motors.

特点:

- 铝质高效冷却系统
- 性能卓越，可承受高工作压力—重载液压或润滑系统亦可使用
- 最高工作压力: DFT1~DFT8 16bar
DFT9~DFT11 10bar
- 应用场合广泛，如传输系统、发动机，液压及润滑系统等，也可用作独立的冷却器
- 可配置12V/24V直流电机，220V/380V交流电机或液压马达驱动风扇



Dimensions 外形尺寸

Make sure you can select the right cooler, please contact us ※ 为保证冷却器选型的准确性，请与迪奥公司电话联系。

Type 型号	Heat Rejection (KW) 散热量	G ±10	K ±10	C ±2	C1 ±2	C2 ±5	C3 ±5	G1 ±5	K1 ±2	O'/O"
DFT1	1-5	325	250	200	150	65	170	260	80	G3/4"
DFT2	3-10	415	360	250	200	115	330	350	150	G1"
DFT3	8-15	520	455	250	200	160	330	450	200	G1"
DFT4	10-20	520	455	300	250	160	330	460	200	G1 1/4"
DFT5(DFT5K)	15-25	695	471	300	250	165	445(415)	610	200	G1 1/4"(G1")
DFT6	20-35	795	610	300	250	235	495	710	310	G1 1/4"
DFT7	35-40	950	610	300	250	235	525	860	310	G1 1/4"
DFT8	35-75	960	725	300	250	280	580	870	400	G1 1/2"
DFT9	60-120	1340	1000	580	540	390	710	1180	440	SAE 2-1/2"
DFT10	85-180	1340	1000	580	540	390	730	1180	440	SAE 3"
DFT11	120-260	1482	1290	750	710	532	900	1330	525	SAE 3"

Type 型号	Fan Diameter [mm] 风扇直径	Fan speed [rpm] 风扇转速	Noise level [dB(A), 1m] 噪声	Motor Voltage [V] 电机电压	Consumed Power [kW] 消耗功率	Volume [L] 容量	Working Pressure [bar] 工作压力	Total Weight excluding fluid [kg] 总重量(不含液体)
DFT1	190	3250	71	12	0.08	1.0	16	6.7
	190	3250	71	24	0.08	1.0	16	6.7
	200	2750	64	230/400	0.05	1.0	16	7.1
DFT2	255	2600	74	12	0.1	1.9	16	15.6
	255	2600	72	24	0.1	1.9	16	15.6
	250	3000	75	Hydraulic motor		1.9	16	15.6
	250	1500	57	230/400	0.06	1.9	16	15.6
	250	1500	65	*230/400	0.25	1.9	16	15.6
DFT3	350	2950	76	12	0.2	2.9	16	23
	350	2950	78	24	0.2	2.9	16	23
	380	1500	75	Hydraulic motor		2.9	16	23
	380	1000	68	234/400	0.14	2.9	16	23
	350	1500	75	*230/400	0.25	2.9	16	23
DFT4	350	2950	77	12	0.2	5.2	16	28.8
	350	2950	78	24	0.2	5.2	16	28.8
	350	1500	77	Hydraulic motor		5.2	16	28.8
	350	1500	77	230/400	0.14	5.2	16	28.8
	350	1500	77	*230/400	0.37	5.2	16	28.8
DFT5	385	3100	79	12	0.2	6.3	16	38
	385	3100	79	24	0.2	6.3	16	38
	450	1500	77	Hydraulic motor		6.3	16	38
	450	1500	77	230/400	0.25	6.3	16	38
	450	1500	77	*230/400	0.55	5.5	16	38
DFT5K	450	1500	77					
	2x305	3100	81	12	2x0.2	8.5	16	49
	2x305	3100	81	24	2x0.2	8.5	16	49
	500	1500	79	Hydraulic motor		8.5	16	49
	500	1500	79	230/400	0.45	8.5	16	49
DFT6	500	1500	79	*230/400	0.75	8.5	16	49
	2x305	3100	81	12	2x0.2	10.6	16	54
	2x305	3100	81	24	2x0.2	10.6	16	54
	500	1500	79	Hydraulic motor		10.6	16	54
	500	1500	79	230/400	0.45	10.6	16	54
DFT7	500	1500	79	*230/400	0.75	10.6	16	54
	4x305	3100	81	12	4x0.2	17.7	16	89
	4x305	3100	81	24	4x0.2	17.7	16	89
	630	1000	79	Hydraulic motor		17.7	16	89
	630	1000	79	*230/400	0.75	17.7	16	89
DFT8	630	1500	90	*230/400	2.2	17.7	16	89
	900	1000	88	Hydraulic motor		25	10	190
	900	1000	88	*230/400	2.2	25	10	190
DFT9	900	750	82	*230/400	1.1	25	10	190
	900	1000	98	Hydraulic motor		31	10	200
	900	1500	98	*400/690	5.5	31	10	200
DFT10	900	1000	88	*400/690	3.0	31	10	200
	1000	1000	100	Hydraulic motor		55	10	约290
	1000	1500	100	*400/690	11.0	55	10	约290
DFT11	1000	1000	90	*400/690	7.5	55	10	约290

Displacement of hydraulic motor [cm³]

DFT2~DFT5: 8ccm
DFT6~DFT8: 16ccm
DFT9~DFT10: 25ccm

液压马达排量 [cm³]:

DFT2~DFT5: 8ccm
DFT6~DFT8: 16ccm
DFT9~DFT10: 25ccm

* Motor 电机

Quick model selection of DFT 快速选型

Quick selection can be made with the help of the following tables

The data of heat abstraction quantity in the forms below are based on the assumption that oil inlet temperature does not exceed 70°C for hydraulic systems and 110°C for lubricating systems.

Please use the following heat abstraction figures if no details are available:
 - Agricultural and construction machinery: 1/3 of diesel engine power
 - Hydraulic pumps driven by an electric motor: 1/3 of electric motor power

借助以下表格可进行快速选型

下表中给出的散热量数据是在下述条件下求得的:

1. 液压系统进口温度不超过70°C
2. 润滑系统进口温度不超过110°C

若无详细散热量参数, 可按下列方法估算散热量:

- 农业及建筑机械: 柴油机功率的1/3
- 电机驱动的液压泵: 电机功率的1/3

Applied to hydraulic systems 应用于液压系统

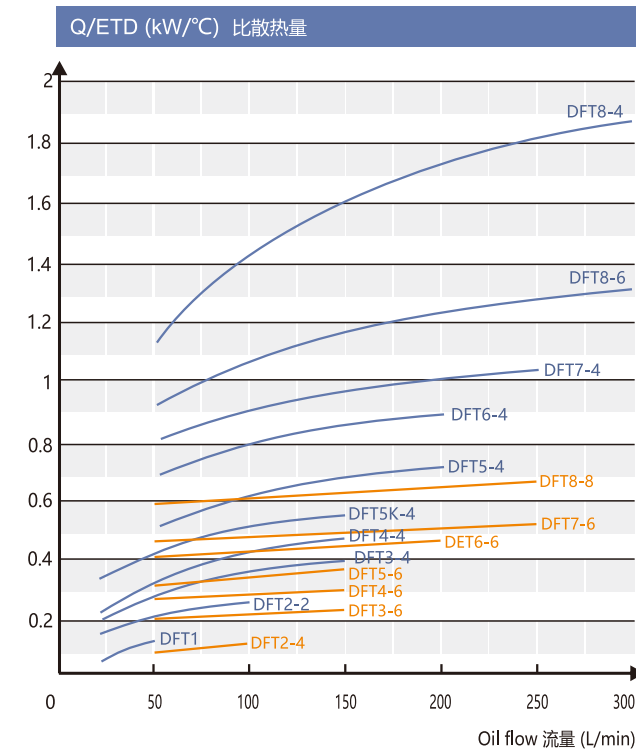
Heat rejection [kW @40°C ambient temperature] 环境温度30°C时的散热量 (kW)														
Oil flow in 油流量 (L/min)	DFT1	DFT2	DFT3	DFT4	DFT5K	DFT5	DFT6	DFT7	DFT8	DFT8S	DFT9	DFT10	DFT11	
10	1.5	3.4	5											
20	2.2	4.6	6	6	11									
30	3	5.4	7	8.5	13									
50	3.5	6.3	8.5	10	12.6	16	20	24	28	34				
75		7	10	11	15	17	23	26	31	31	46	60		
100		7.6	11	12	16	18	24	27	33	42	52	84		
150			12	13	17	20	25	29	36	47	61	96	131	
200						21	26	30	37	51	68	105	147	
250									38	54	72	111	159	
300											75	117	171	
400											83	126	186	
500											89	135	200	
600													210	

Applied to lubricating systems 应用于润滑系统

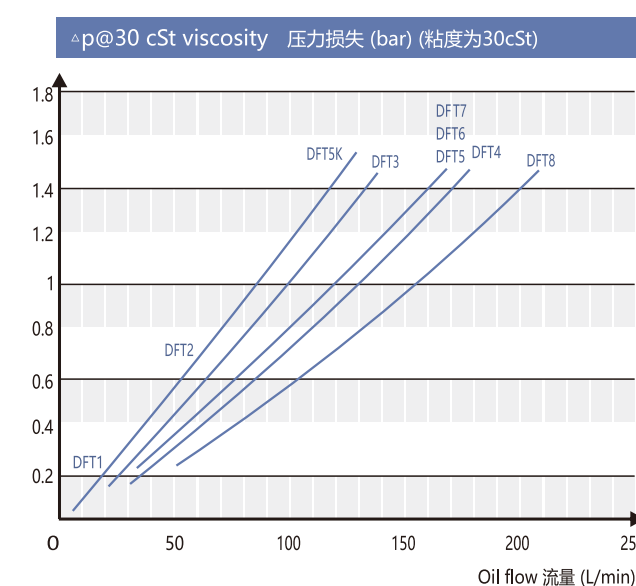
Heat rejection [kW @40°C ambient temperature] 环境温度40°C时的散热量 (kW)														
Oil flow in 油流量 (L/min)	DFT1	DFT2	DFT3	DFT4	DFT5K	DFT5	DFT6	DFT7	DFT8	DFT8S	DFT9	DFT10	DFT11	
10	3.5	7	11											
20	5.5	10	14	14	27									
30	7	12	17	20	30	31								
50	8	14	20	23	32	37	48	56	69	81				
75	9	16	22	27	35	40	53	60	73	91	107			
100		18	24	29	37	43	55	63	77	98	121	196		
150			28	32	40	46	59	67	84	110	142	224	301	
200						49	62	70	88	119	158	245	343	
250									90	126	168	259	371	
300											175	273	399	
400											193	294	434	
500											207	315	466	
600													490	

Heat abstraction quantity curve & pressure loss of DFT 散热量曲线和压力损失

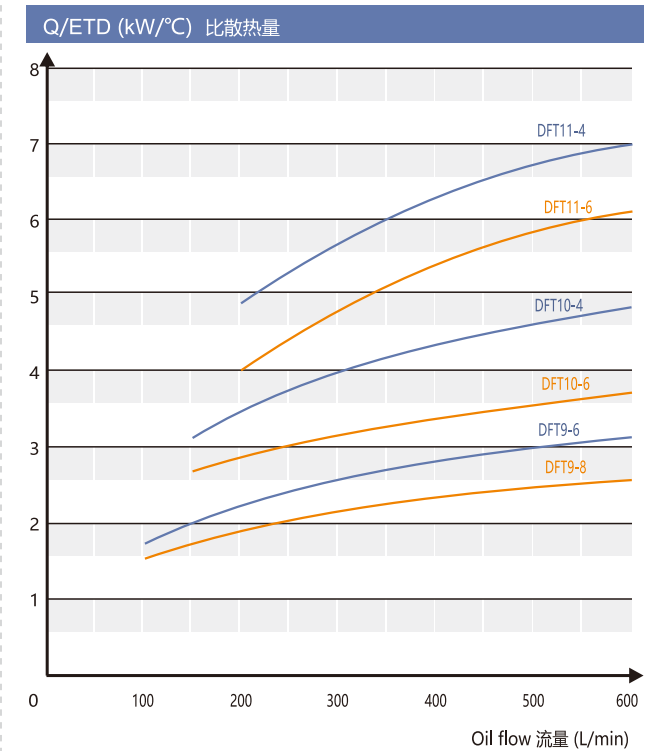
Curve of heat abstraction quantity 散热量曲线
DFT1~DFT8



Pressure loss 压力损失
DFT1~DFT8



Curve of heat abstraction quantity 散热量曲线
DFT9~DFT11



Pressure loss 压力损失
DFT9~DFT11

