



**تهویه دماوند پارس**  
طراح و سازنده تجهیزات تهویه مطبوع

**HYUNDAI**  
CLIMATE CONTROL CO., LTD.  
نماینده محصولات تهویه مطبوع هیوندای کره در ایران



**چیلر تراکمی** رفت و برگشتی

**Reciprocating Chillers**

دفتر مرکزی: تهران بزرگراه جلال آل احمد، بین پل گیشا و پل آزمایش، پلاک ۱۱۳، طبقه سوم، واحد ۶

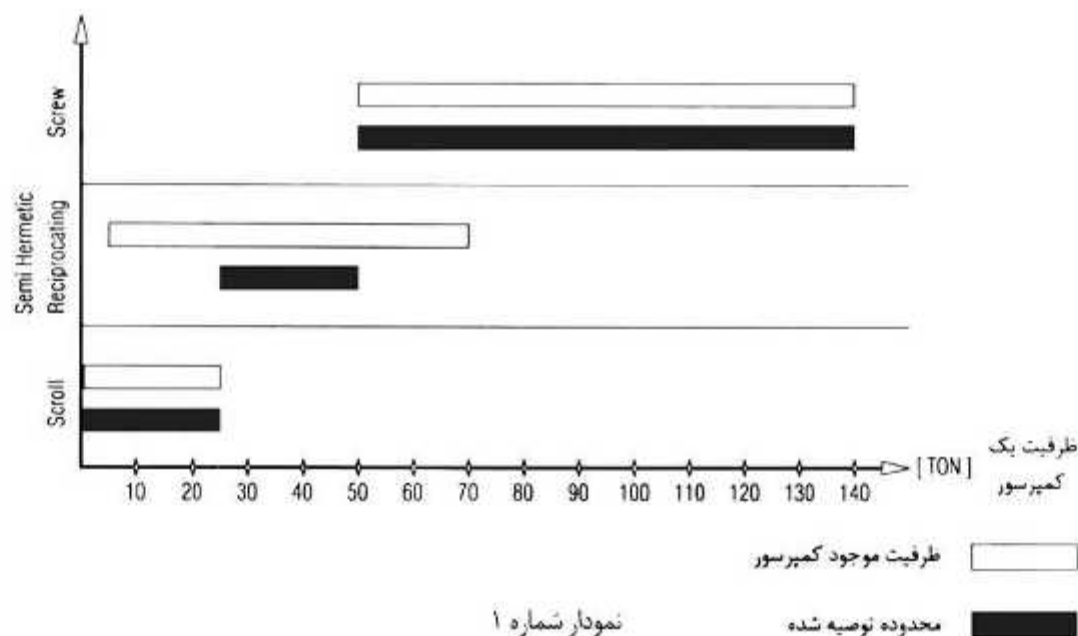
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## بسمه تعالی

امروزه در صنایع تهویه مطبوع در کشورهای مختلف استفاده میشوند عبارتند از: نوع Scroll و نوع Screw. بدلیل مزایایی که این کمپرسورها نسبت به نوع رفت و برگشتی دارند کارخانجات سازنده کمپرسور توصیه اکید بر جایگزینی این نوع کمپرسورها بجای نوع رفت و برگشتی در هر جا که امکان پذیر است دارند. در همین راستا شرکت تهویه دماوند پارس نیز علاوه بر ساخت چیلرهای مجهز به کمپرسورهای رفت و برگشتی اقدام به طراحی و ساخت چیلرهای جدید خود بر مبنای این دو نوع کمپرسور نموده است که مزایای هریک در کاتالوگ مربوطه بیان شده است. نمودار شماره یک نشاندهنده محدوده توصیه شده برای استفاده از هریک از انواع کمپرسورهای فوق الذکر میباشد.

چیلرهای تراکمی دارای کاربرد فراوانی در تهویه مطبوع میباشد، قب این نوع چیلرها کمپرسور آنهاست. کمپرسور یکی از اساسی ترین قطعات یک چیلر تراکمی است و دارای نقشی تعیین کننده در رانندگی، کارایی، قابلیت اعتماد و چگونگی تعمیر و نگهداری چیلر و ... می باشد. به همین دلیل انتخاب صحیح نوع کمپرسور با توجه به کاربرد آن بسیار مهم است. مرسوم ترین نوع کمپرسور در کشور ما نوع رفت و برگشتی است، ولی با پیشرفت تکنولوژی انواع مختلفی از کمپرسورها در دنیا تولید شده که هر کدام با توجه به خصوصیات مربوط به آنها سهم مهمی از بازار را به خود اختصاص داده اند، امروزه در دنیا کمپرسورهای رفت و برگشتی فقط در محدوده کوچکی مورد استفاده قرار میگیرند و در سایر موارد بدلیل مشکلاتی که دارند بطور کمی کنار گذاشته شده اند، دو نوع از مرسوم ترین کمپرسورهایی که



نمودار مذکور مربوط به چیلرهای تک کمپرسوره میباشد، چنانچه چیلرهای ۲ و چند کمپرسوره را نیز در نظر بگیریم، دیده میشود که در تمامی تناژها، کمپرسورهای رفت و برگشتی قابل جایگزینی با انواع Scroll یا Screw میباشد.

### چیلرهای مجهز به کمپرسورهای رفت و برگشتی :

کمپرسورهای رفت و برگشتی جزو قدیمی ترین انواع کمپرسورها بوده و بدلیل آشنایی بیشتر استفاده کنندگان ایرانی در اکثر تجهیزات تهویه مطبوع بصورت سنتی از این نوع کمپرسورها استفاده میشود. شرکت تهویه دماوند پارس نیز دارای محدوده وسیعی از چیلرهای مجهز به این نوع کمپرسور در تولیدات خود میباشد .

این شرکت از کمپرسورهای Carlyle کمپنی Carrier که دارای پیشینه خوبی در ایران هستند استفاده میکند ، این نوع کمپرسور از نظر ساختار بسیار قوی و قادر به تحمل شرایط آب و هوایی نامساعد مناطق جنوبی ایران میباشد . کارکرد این کمپرسورها در دماهای تقطیر بالا بسیار خوب بوده بطوریکه قادر به تحمل دمای تقطیر حداکثر تا  $145^{\circ}\text{F}$  (حدود  $63^{\circ}\text{C}$ ) میباشد . کاتالوگ حاضر در بر گیرنده مشخصات چیلرهای ساخت شرکت تهویه دماوند پارس که مجهز به این نوع کمپرسورها هستند میباشد .

### روش انتخاب :

اثر ضریب رسوب :

ضریب رسوب آب در گردش در کندانسور و اواپراتور نقش مهمی در کارایی چیلر دارد . ضریب رسوب اعمال شده در طراحی کندانسور و اواپراتور معادل  $0.0005[\text{ft}^2 \cdot ^{\circ}\text{F} \cdot \text{hr} / \text{BTU}]$  میباشد . چنانچه ضریب رسوب آب مورد استفاده بیش از این مقدار باشد ، جهت اعمال اثر ضریب رسوب مطابق استاندارد ARI-560 عمل میشود . طبق این استاندارد برای کندانسور به ازاء هر  $0.0005[\text{ft}^2 \cdot ^{\circ}\text{F} \cdot \text{hr} / \text{BTU}]$  افزایش در ضریب رسوب ،  $2.5^{\circ}\text{F}$  به دمای آب خروجی از کندانسور اضافه میشود و در اواپراتور نیز به ازای هر  $0.0005[\text{ft}^2 \cdot ^{\circ}\text{F} \cdot \text{hr} / \text{BTU}]$  افزایش ضریب رسوب ،  $2^{\circ}\text{F}$  از دمای آب سرد خروجی چیلر کاسته میگردد .

### مثال ۱ :

چیلر با کندانسور آبی مجهز به کمپرسور رفت و برگشتی مورد نیاز برای سرد کردن  $81[\text{GPM}]$  آب از دمای  $55^{\circ}\text{F}$  به  $45^{\circ}\text{F}$  را انتخاب کنید ، دمای ورودی آب کندانسور  $82.5^{\circ}\text{F}$  ، دمای خروج آب کندانسور  $92.5^{\circ}\text{F}$  ، ضریب رسوب اواپراتور  $0.0005[\text{ft}^2 \cdot ^{\circ}\text{F} \cdot \text{hr} / \text{BTU}]$  کندانسور  $0.001$  میباشد .

### حل :

ظرفیت سرمایی مورد نظر عبارت است از :

$$\text{Cap.} = \frac{\text{GPM} \times 500 \times \text{Chilled water range}}{12000}$$

$$= \frac{81 \times 500 \times (55 - 45)}{12000} = 33.8 [\text{Tons}]$$

با توجه به اینکه ضریب رسوب در کندانسور به میزان  $0.0005[\text{ft}^2 \cdot ^{\circ}\text{F} \cdot \text{hr} / \text{BTU}]$  بیش از مقدار لحاظ شده در طراحی میباشد ، برای مراجعه به جدول  $2.5^{\circ}\text{F}$  به دمای آب خروجی از کندانسور اضافه میشود :

$$\text{Cond. Water leaving Temp.} = 92.5 + 2.5 = 95^{\circ}\text{F}$$

باید توجه نمود که این تغییر دما فقط برای مراجعه به جدول بوده و برای سایر محاسبات از همان مقادیر واقعی استفاده میشود . در مورد اواپراتور ، ضریب رسوب با مقدار لحاظ شده در طراحی برابر بوده ، بنابراین هنگام مراجعه به جدول برای انتخاب چیلر ، دمای آب سرد خروجی همان  $45^{\circ}\text{F}$  است .

با مراجعه به جدول شماره 3 برای چیلر مدل DRLC-40-1W با دمای آب خروجی از کندانسور  $95^{\circ}\text{F}$  و دمای آب سرد خروجی  $45^{\circ}\text{F}$  ظرفیت واقعی عبارتست از :

$$\text{Actual Cap.} = 34.6 [\text{Tons}]$$

که جوابگوی ظرفیت مورد نظر میباشد . همچنین اطلاعات زیر را نیز میتوان از جدول مذکور استخراج نمود :

Electric power cons.:	31.1 [Kw]
Electric current.:	67.8 [A]
Chilled water flow rate:	83.0[GPM]
Chilled water pressure drop:	8.1 [ftw]
Cooling water flow rate:	104.3[GPM]
Cooling water pressure drop:	11.7 [ftw]

### مثال ۲ :

چیلر با کندانسور هوایی مجهز به کمپرسور رفت و برگشتی مورد نیاز برای سرد کردن  $55[\text{GPM}]$  آب از دمای  $57^{\circ}\text{F}$  به  $47^{\circ}\text{F}$  را انتخاب نمایید ، دمای تقطیر در کندانسور  $120^{\circ}\text{F}$  و ضریب رسوب در اواپراتور معادل  $0.001[\text{ft}^2 \cdot ^{\circ}\text{F} \cdot \text{hr} / \text{BTU}]$  میباشد :

حل :

با مراجعه به جدول شماره 12 برای چیلر DRLC-30-1A با توجه به دمای تقطیر 120°F و دمای آب خروجی 45°F از اواپراتور ، ظرفیت واقعی عبارتست از :

Actual Cap.=23.6 [Tons]

که جوابگوی ظرفیت مورد نیاز میباشد ، همچنین اطلاعات زیر را میتوان از جدول مذکور استخراج نمود :

Electric power cons.:	24.9[Kw]
Electric current :	52.0[A]
Chilled water flow rate:	56.5[GPM]
Chilled water pressure drop :	9.0[ftw]
Total heat rejection:	367.3[MBH]

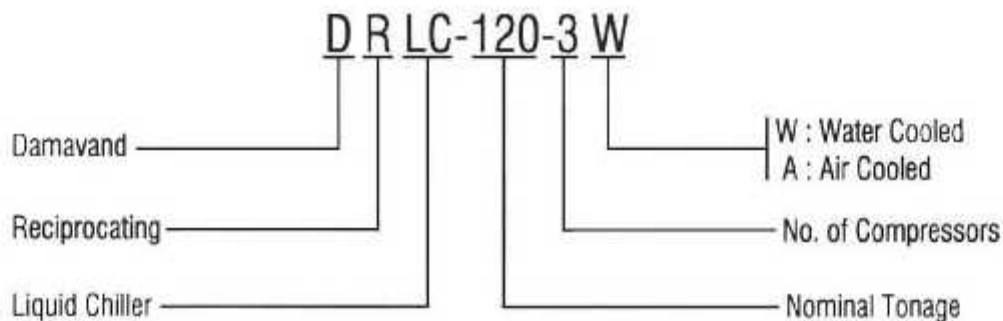
ظرفیت سرمایی مورد نظر عبارتست از :

$$\text{Cap.} = \frac{\text{GPM} \times 500 \times \text{Chilled water range}}{12000}$$
$$= \frac{55 \times 500 \times (57 - 47)}{12000} = 22.9 [\text{Tons}]$$

با توجه به اینکه ضریب رسوب در اواپراتور به میزان 0.0005 [ft<sup>2</sup>.°F.hr/BTU] بیش از میزان لحاظ شده در طراحی میباشد. برای مراجعه به جدول 2°F از دمای آب سرد خروجی کاسته میشود:

Chilled water leaving temp. = 47-2 = 45°F

باید توجه نمود که این تغییر دما فقط برای مراجعه به جدول بوده و در سایر مقادیر واقعی استفاده میشود.



\* توجه : حداکثر دمای تقطیر مجاز در این کمپرسورها معادل 145°F (63°C) است .

Table1

DRLC-7.5-1W

جدول شماره ۱

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	8.6	5.7	12.6	20.7	4.7	24.6	7.0
	44	9.0	5.8	12.6	21.6	5.1	25.6	7.5
	45	9.2	5.8	12.6	22.1	5.4	26.1	7.9
	46	9.4	5.8	12.6	22.6	5.6	26.6	8.2
90	42	8.3	6.0	13.1	19.9	4.3	24.0	6.7
	44	8.6	6.1	13.1	20.8	4.7	25.0	7.2
	45	8.9	6.1	13.1	21.3	5.0	25.4	7.5
	46	9.1	6.1	13.1	21.8	5.2	25.9	7.8
95	42	8.0	6.3	13.6	19.1	4.0	23.4	6.3
	44	8.3	6.4	13.6	20.0	4.4	24.3	6.9
	45	8.5	6.4	13.7	20.4	4.6	24.8	7.1
	46	8.7	6.4	13.7	20.9	4.8	25.3	7.4
100	42	7.6	6.6	14.1	18.3	3.7	22.8	6.0
	44	8.0	6.7	14.2	19.2	4.0	23.7	6.5
	45	8.2	6.7	14.2	19.6	4.2	24.2	6.8
	46	8.4	6.8	14.3	20.1	4.4	24.7	7.1
105	42	7.3	6.9	14.6	17.6	3.4	22.2	5.7
	44	7.7	7.0	14.7	18.4	3.7	23.1	6.2
	45	7.8	7.0	14.7	18.8	3.9	23.6	6.4
	46	8.0	7.1	14.8	19.2	4.1	24.1	6.7

Table2

DRLC-7.5-1A

جدول شماره ۲

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	7.3	6.9	14.6	17.4	3.3	110.8
	44	7.6	7.0	14.7	18.3	3.7	115.3
	45	7.8	7.0	14.7	18.8	3.9	117.6
	46	8.0	7.1	14.8	19.2	4.0	119.9
120	42	7.0	7.2	15.1	16.7	3.0	108.0
	44	7.3	7.3	15.2	17.5	3.4	112.4
	45	7.5	7.3	15.3	17.9	3.5	114.7
	46	7.7	7.4	15.4	18.4	3.7	117.0
125	42	6.7	7.5	15.6	16.0	2.8	105.2
	44	7.0	7.5	15.7	16.8	3.1	109.5
	45	7.1	7.6	15.8	17.1	3.2	111.7
	46	7.3	7.7	15.9	17.6	3.4	114.0
130	42	6.4	7.7	16.0	15.2	2.5	102.4
	44	6.7	7.8	16.3	16.0	2.8	106.6
	45	6.8	7.9	16.4	16.4	2.9	108.8
	46	7.0	7.9	16.5	16.8	3.1	111.0
140	42	5.8	8.2	17.0	13.8	2.1	96.8
	44	6.1	8.3	17.3	14.6	2.3	100.9
	45	6.2	8.4	17.5	14.9	2.4	103.0
	46	6.4	8.5	17.6	15.3	2.6	105.1

Table3

DRLC-10-1W

جدول شماره ۳

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	10.3	6.9	14.9	24.6	3.5	29.3	10.2
	44	10.7	6.9	14.9	25.7	3.8	30.4	11.0
	45	10.9	6.9	14.8	26.3	4.0	30.9	11.4
	46	11.2	6.9	14.8	26.8	4.1	31.5	11.8
90	42	9.9	7.3	15.6	23.7	3.2	28.7	9.9
	44	10.3	7.3	15.6	24.8	3.5	29.7	10.5
	45	10.6	7.3	15.6	25.3	3.7	30.3	10.9
	46	10.8	7.3	15.6	25.9	3.8	30.9	11.3
95	42	9.5	7.6	16.3	22.8	3.0	28.0	9.4
	44	9.9	7.7	16.4	23.9	3.3	29.1	10.1
	45	10.2	7.7	16.4	24.4	3.4	29.6	10.5
	46	10.4	7.7	16.4	24.9	3.6	30.2	10.9
100	42	9.1	8.0	17.0	22.0	2.8	27.4	8.9
	44	9.6	8.1	17.1	23.0	3.0	28.5	9.6
	45	9.8	8.1	17.1	23.5	3.2	29.0	10.0
	46	10.0	8.1	17.1	24.0	3.3	29.5	10.4
105	42	8.8	8.3	17.5	21.2	2.6	26.8	8.6
	44	9.2	8.4	17.6	22.2	2.8	27.9	9.2
	45	9.4	8.4	17.7	22.7	2.9	28.4	9.6
	46	9.7	8.4	17.7	23.2	3.1	28.9	10.0

Table4

DRLC-10-1A

جدول شماره ۴

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	8.7	8.4	17.6	21.0	2.5	133.5
	44	9.2	8.4	17.7	22.0	2.8	138.7
	45	9.4	8.5	17.8	22.5	2.9	141.3
	46	9.6	8.5	17.9	23.0	3.0	144.0
120	42	8.4	8.7	18.2	20.2	2.3	130.6
	44	8.8	8.8	18.4	21.1	2.6	135.6
	45	9.0	8.8	18.5	21.6	2.7	138.2
	46	9.2	8.9	18.6	22.1	2.8	140.8
125	42	8.1	9.0	18.8	19.4	2.2	127.6
	44	8.5	9.1	19.0	20.3	2.4	132.6
	45	8.6	9.2	19.1	20.7	2.5	135.1
	46	8.9	9.2	19.2	21.3	2.6	137.7
130	42	7.8	9.3	19.4	18.6	2.0	124.7
	44	8.1	9.5	19.7	19.5	2.2	129.6
	45	8.3	9.5	19.8	19.9	2.3	132.1
	46	8.5	9.6	19.9	20.4	2.4	134.6
140	42	7.1	9.9	20.5	17.1	1.7	118.9
	44	7.5	10.1	20.8	17.9	1.8	123.5
	45	7.6	10.2	21.0	18.3	1.9	125.9
	46	7.8	10.2	21.1	18.8	2.0	128.3

Table5

DRLC-15-1W

جدول شماره 5

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	13.9	9.9	21.1	33.4	4.1	40.1	9.0
	44	14.5	9.9	21.2	34.8	4.5	41.6	9.7
	45	14.8	9.9	21.1	35.6	4.7	42.3	10.0
	46	15.1	9.9	21.2	36.3	4.9	43.1	10.4
90	42	13.4	10.5	22.2	32.2	3.9	39.4	8.7
	44	14.0	10.5	22.2	33.6	4.2	40.8	9.3
	45	14.3	10.5	22.3	34.4	4.4	41.5	9.7
	46	14.6	10.5	22.3	35.1	4.6	42.3	10.0
95	42	13.0	11.0	23.2	31.1	3.6	38.6	8.4
	44	13.5	11.1	23.3	32.5	3.9	40.1	9.0
	45	13.8	11.1	23.4	33.2	4.1	40.8	9.3
	46	14.1	11.2	23.4	33.9	4.3	41.5	9.7
100	42	12.5	11.6	24.2	30.0	3.3	37.9	8.1
	44	13.0	11.7	24.4	31.3	3.6	39.3	8.7
	45	13.3	11.7	24.4	32.0	3.8	40.0	9.0
	46	13.6	11.8	24.5	32.7	4.0	40.7	9.3
105	42	12.0	12.1	25.2	28.9	3.1	37.2	7.7
	44	12.6	12.3	25.4	30.2	3.4	38.5	8.3
	45	12.8	12.3	25.5	30.8	3.5	39.2	8.5
	46	13.1	12.4	25.6	31.5	3.7	40.0	9.0

Table6

DRLC-15-1A

جدول شماره 6

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	12.0	12.1	25.2	28.7	3.1	185.0
	44	12.5	12.3	25.4	30.0	3.4	192.0
	45	12.8	12.3	25.5	30.8	3.5	195.5
	46	13.1	12.4	25.6	31.4	3.7	199.1
120	42	11.5	12.6	26.1	27.7	2.8	181.5
	44	12.1	12.8	26.4	29.0	3.1	188.3
	45	12.3	12.9	26.6	29.6	3.2	191.8
	46	12.6	12.9	26.7	30.3	3.4	195.3
125	42	11.1	13.1	27.1	26.7	2.6	177.9
	44	11.6	13.3	27.4	27.9	2.9	184.6
	45	11.9	13.4	27.6	28.5	3.0	188.1
	46	12.2	13.5	27.7	29.2	3.2	191.5
130	42	10.7	13.6	28.0	25.6	2.4	174.3
	44	11.2	13.8	28.4	26.8	2.7	180.9
	45	11.4	13.9	28.6	27.4	2.8	184.3
	46	11.7	14.0	28.8	28.1	2.9	187.7
140	42	9.8	14.5	29.8	23.6	2.1	167.1
	44	10.3	14.7	30.3	24.8	2.3	173.5
	45	10.5	14.8	30.6	25.3	2.4	176.7
	46	10.8	14.9	30.8	25.9	2.5	180.0

Table7

DRLC-20-1W

جدول شماره ۷

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	18.7	13.2	27.9	44.8	7.1	53.8	12.1
	44	19.5	13.2	28.0	46.7	7.7	55.7	12.9
	45	19.9	13.3	28.0	47.7	8.0	56.7	13.4
	46	20.3	13.3	28.0	48.7	8.4	57.7	13.9
90	42	18.0	13.9	29.1	43.1	6.6	52.6	11.5
	44	18.7	13.9	29.2	45.0	7.2	54.5	12.4
	45	19.1	14.0	29.2	46.0	7.5	55.5	12.8
	46	19.6	14.0	29.3	46.9	7.8	56.5	13.3
95	42	17.3	14.5	30.2	41.5	6.1	51.4	11.0
	44	18.1	14.6	30.3	43.3	6.6	53.3	11.8
	45	18.4	14.7	30.4	44.3	6.9	54.3	12.3
	46	18.8	14.7	30.5	45.2	7.2	55.2	12.7
100	42	16.6	15.1	31.3	39.9	5.6	50.3	10.5
	44	17.4	15.3	31.5	41.7	6.1	52.1	11.3
	45	17.8	15.3	31.6	42.6	6.4	53.1	11.7
	46	18.1	15.4	31.7	43.5	6.7	54.0	12.2
105	42	16.0	15.7	32.3	38.4	5.2	49.1	10.0
	44	16.7	15.9	32.6	40.1	5.7	50.9	10.8
	45	17.1	16.0	32.7	41.0	5.9	51.9	11.2
	46	17.4	16.0	32.9	41.9	6.2	52.8	11.6

Table8

DRLC-20-1A

جدول شماره ۸

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	15.9	15.7	32.3	38.2	5.2	244.6
	44	16.6	15.9	32.6	39.9	5.6	253.8
	45	17.0	16.0	32.7	40.9	5.9	258.4
	46	17.4	16.0	32.9	41.7	6.1	263.1
120	42	15.3	16.3	33.4	36.7	4.8	239.1
	44	16.0	16.5	33.7	38.4	5.2	248.0
	45	16.3	16.6	33.9	39.2	5.4	252.6
	46	16.7	16.7	34.0	40.1	5.7	257.2
125	42	14.7	16.9	34.4	35.2	4.4	233.5
	44	15.4	17.1	34.8	36.9	4.8	242.3
	45	15.7	17.2	35.0	37.6	5.0	246.8
	46	16.1	17.3	35.1	38.5	5.2	251.3
130	42	14.1	17.4	35.4	33.7	4.0	227.9
	44	14.7	17.7	35.6	35.3	4.4	236.5
	45	15.0	17.8	36.0	36.0	4.6	240.9
	46	15.4	17.9	36.2	36.9	4.8	245.3
140	42	12.8	18.5	37.3	30.7	3.3	216.3
	44	13.4	18.8	37.9	32.2	3.7	224.6
	45	13.7	19.0	38.2	32.9	3.8	228.8
	46	14.0	19.1	38.4	33.7	4.0	233.1



Table9

DRLC-25-1W

جدول شماره ۹

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	24.6	17.5	38.9	59.0	9.2	70.9	22.4
	44	25.7	17.6	39.0	61.7	10.1	73.7	24.1
	45	26.3	17.6	39.1	63.1	10.6	75.1	25.1
	46	26.9	17.6	39.1	64.5	11.0	76.5	26.0
90	42	23.6	18.4	40.3	56.7	8.5	69.3	21.3
	44	24.7	18.5	40.5	59.3	9.4	72.0	23.0
	45	25.3	18.6	40.6	60.7	9.8	73.4	24.0
	46	25.9	18.6	40.6	62.1	10.2	74.8	24.9
95	42	22.7	19.3	41.6	54.5	7.9	67.6	20.3
	44	23.8	19.4	41.8	57.0	8.6	70.3	22.0
	45	24.3	19.5	42.0	58.3	9.0	71.7	22.8
	46	24.9	19.6	42.1	59.7	9.5	73.0	23.7
100	42	21.8	20.1	42.8	52.3	7.3	66.0	19.4
	44	22.8	20.3	43.2	54.8	8.0	68.6	21.0
	45	23.3	20.4	43.4	56.0	8.3	70.0	21.8
	46	23.9	20.5	43.6	57.3	8.7	71.3	22.6
105	42	20.9	20.9	44.1	50.1	6.7	64.4	18.4
	44	21.9	21.1	44.5	52.5	7.3	67.0	19.9
	45	22.4	21.3	44.8	53.7	7.7	68.3	20.7
	46	22.9	21.4	45.0	55.0	8.0	69.6	21.5

Table10

DRLC-25-1A

جدول شماره ۱۰

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	20.8	20.9	44.1	49.9	6.6	320.6
	44	21.8	21.1	44.5	52.3	7.3	333.5
	45	22.3	21.3	44.8	53.6	7.6	340.1
	46	22.8	21.4	45.0	54.7	8.0	346.8
120	42	20.0	21.6	45.3	47.9	6.1	312.8
	44	20.9	21.9	45.8	50.2	6.7	325.5
	45	21.4	22.1	46.1	51.4	7.0	332.0
	46	22.0	22.2	46.3	52.7	7.4	338.5
125	42	19.1	22.3	46.5	45.9	5.6	305.0
	44	20.0	22.7	47.1	48.1	6.1	317.4
	45	20.5	22.8	47.4	49.2	6.4	323.8
	46	21.1	23.0	47.7	50.6	6.8	330.2
130	42	18.3	23.0	47.6	43.9	5.1	297.2
	44	19.2	23.4	48.3	46.1	5.6	309.4
	45	19.6	23.6	48.7	47.0	5.9	315.6
	46	20.1	23.7	49.0	48.3	6.2	321.9
140	42	16.7	24.2	49.9	40.0	4.3	281.6
	44	17.5	24.6	50.7	42.0	4.7	293.3
	45	17.9	24.9	51.2	43.1	4.9	299.3
	46	18.4	25.1	51.6	44.2	5.2	305.4

Table11

DRLC-30-1W

جدول شماره ۱۱

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	26.5	19.9	44.0	63.6	11.4	77.1	10.7
	44	27.6	20.0	44.1	66.3	12.4	79.9	11.5
	45	28.2	20.0	44.2	67.6	12.9	81.3	11.9
	46	28.8	20.0	44.2	69.0	13.4	82.7	12.4
90	42	25.6	20.9	45.5	61.5	10.6	75.7	10.4
	44	26.7	21.0	45.8	64.1	11.6	78.5	11.1
	45	27.3	21.1	45.9	65.5	12.1	79.9	11.6
	46	27.9	21.1	46.0	66.9	12.6	81.3	11.9
95	42	24.7	21.8	47.0	59.4	9.9	74.3	10.0
	44	25.8	22.0	47.3	62.0	10.8	77.0	10.7
	45	26.4	22.1	47.5	63.3	11.3	78.4	11.1
	46	26.9	22.2	47.6	64.7	11.8	79.8	11.5
100	42	23.9	22.7	48.5	57.3	9.2	72.8	9.6
	44	24.9	23.0	48.9	59.8	10.1	75.5	10.3
	45	25.5	23.1	49.1	61.1	10.5	76.9	10.7
	46	26.0	23.2	49.2	62.4	11.0	78.3	11.1
105	42	23.0	23.6	49.9	55.1	8.6	71.2	9.2
	44	24.0	23.9	50.3	57.6	9.3	73.9	9.9
	45	24.5	24.0	50.6	58.9	9.8	75.3	10.2
	46	25.1	24.1	50.8	60.2	10.2	76.7	10.6

Table12

DRLC-30-1A

جدول شماره ۱۲

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	22.9	23.6	49.9	54.9	8.5	354.7
	44	23.9	23.9	50.3	57.4	9.3	368.2
	45	24.5	24.0	50.6	58.7	9.7	375.1
	46	25.0	24.1	50.8	60.0	10.1	382.1
120	42	22.0	24.4	51.2	52.9	7.9	347.0
	44	23.0	24.7	51.8	55.3	8.6	360.5
	45	23.6	24.9	52.0	56.5	9.0	367.3
	46	24.1	25.0	52.3	58.0	9.5	374.2
125	42	21.2	25.1	52.4	50.8	7.3	339.1
	44	22.2	25.5	53.1	53.2	8.0	352.4
	45	22.7	25.7	53.4	54.4	8.3	359.2
	46	23.2	25.9	53.8	55.8	8.8	366.0
130	42	20.3	25.8	53.6	48.8	6.7	330.9
	44	21.3	26.2	54.4	51.1	7.3	344.1
	45	21.8	26.4	54.8	52.2	7.7	350.8
	46	22.3	26.7	55.1	53.6	8.1	357.6
140	42	18.6	27.0	55.8	44.6	5.6	313.9
	44	19.5	27.5	56.7	46.8	6.2	326.8
	45	20.0	27.8	57.2	47.9	6.5	333.4
	46	20.4	28.0	57.7	49.1	6.8	340.1

Table13

DRLC-40-1W

جدول شماره ۱۳

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	34.7	28.2	63.0	83.3	8.2	102.6	11.3
	44	36.2	28.5	63.4	86.9	8.9	106.3	12.1
	45	37.0	28.6	63.6	88.7	9.2	108.2	12.6
	46	37.7	28.7	63.8	90.6	9.6	110.1	13.0
90	42	33.6	29.4	64.9	80.6	7.6	100.7	10.9
	44	35.0	29.7	65.5	84.1	8.3	104.4	11.7
	45	35.8	29.9	65.7	85.9	8.7	106.3	12.1
	46	36.5	30.0	66.0	87.7	9.0	108.2	12.5
95	42	32.5	30.6	66.9	77.9	7.1	98.8	10.5
	44	33.9	30.9	67.5	81.3	7.8	102.4	11.2
	45	34.6	31.1	67.8	83.0	8.1	104.3	11.7
	46	35.3	31.3	68.1	84.8	8.4	106.1	12.1
100	42	31.3	31.7	68.7	75.2	6.6	96.8	10.1
	44	32.7	32.1	69.5	78.6	7.2	100.4	10.8
	45	33.4	32.3	69.9	80.2	7.6	102.3	11.2
	46	34.1	32.5	70.2	81.9	7.9	104.1	11.6
105	42	30.2	32.7	70.6	72.6	6.2	94.9	9.7
	44	31.6	33.2	71.4	75.8	6.7	98.4	10.4
	45	32.3	33.4	71.9	77.4	7.0	100.2	10.8
	46	32.9	33.6	72.3	79.1	7.3	102.1	11.2

Table14

DRLC-40-1A

جدول شماره ۱۴

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	30.1	32.7	70.6	72.2	6.1	472.7
	44	31.4	33.2	71.4	75.5	6.7	490.4
	45	32.2	33.4	71.9	77.3	7.0	499.5
	46	32.8	33.6	72.3	78.8	7.3	508.6
120	42	29.0	33.7	72.3	69.7	5.7	463.2
	44	30.4	34.2	73.4	72.9	6.2	480.7
	45	31.0	34.5	73.9	74.3	6.5	489.6
	46	31.7	34.7	74.4	76.1	6.8	498.7
125	42	28.0	34.6	74.1	67.2	5.3	453.7
	44	29.3	35.2	75.2	70.3	5.8	470.9
	45	29.9	35.5	75.8	71.7	6.0	479.7
	46	30.6	35.8	76.4	73.4	6.3	488.6
130	42	27.0	35.5	75.8	64.7	4.9	444.1
	44	28.2	36.1	77.0	67.7	5.4	461.0
	45	28.8	36.4	77.7	69.0	5.6	469.7
	46	29.5	36.7	78.3	70.8	5.9	478.4
140	42	24.9	37.0	79.0	59.8	4.2	424.6
	44	26.1	37.8	80.6	62.6	4.6	440.9
	45	26.6	38.2	81.3	63.9	4.8	449.3
	46	27.3	38.5	82.1	65.5	5.0	457.8

Table15

DRLC-20-2W

جدول شماره ۱۵

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	20.5	13.8	29.8	49.2	6.9	58.6	10.2
	44	21.4	13.8	29.8	51.4	7.6	60.8	11.0
	45	21.9	13.8	29.6	52.5	7.9	61.9	11.4
	46	22.4	13.8	29.6	53.7	8.3	63.0	11.8
90	42	19.8	14.6	31.2	47.4	6.4	57.3	9.8
	44	20.6	14.6	31.2	49.6	7.0	59.5	10.5
	45	21.1	14.6	31.2	50.7	7.3	60.6	10.9
	46	21.6	14.6	31.2	51.8	7.7	61.7	11.3
95	42	19.0	15.2	32.6	45.6	6.0	56.1	9.4
	44	19.9	15.4	32.8	47.7	6.5	58.2	10.1
	45	20.3	15.4	32.8	48.8	6.8	59.3	10.5
	46	20.8	15.4	32.8	49.9	7.1	60.4	10.9
100	42	18.3	16.0	34.0	43.9	5.5	54.8	8.9
	44	19.1	16.2	34.2	45.9	6.0	56.9	9.5
	45	19.6	16.2	34.2	47.0	6.3	58.0	10.0
	46	20.0	16.2	34.2	48.0	6.6	59.1	10.4
105	42	17.6	16.8	35.2	42.2	5.1	53.6	8.5
	44	18.4	16.8	35.4	44.2	5.6	55.7	9.2
	45	18.8	17.0	35.6	45.2	5.8	56.7	9.5
	46	19.2	17.0	35.8	46.2	6.1	57.8	9.9

Table16

DRLC-20-2A

جدول شماره ۱۶

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	17.5	16.8	35.2	42.0	5.1	267.0
	44	18.3	16.8	35.4	44.0	5.5	277.3
	45	18.8	17.0	35.6	45.1	5.8	282.6
	46	19.2	17.0	35.8	46.0	6.1	288.0
120	42	16.8	17.4	36.4	40.4	4.7	261.1
	44	17.6	17.6	36.8	42.3	5.1	271.2
	45	18.0	17.6	37.0	43.2	5.3	276.4
	46	18.4	17.8	37.2	44.3	5.6	281.7
125	42	16.2	18.0	37.6	38.8	4.3	255.3
	44	16.9	18.2	38.0	40.6	4.7	265.2
	45	17.3	18.4	38.2	41.5	4.9	270.2
	46	17.7	18.4	38.4	42.6	5.2	275.4
130	42	15.5	18.6	38.8	37.2	4.0	249.4
	44	16.2	19.0	39.4	39.0	4.4	259.1
	45	16.6	19.0	39.6	39.8	4.5	264.1
	46	17.0	19.2	39.8	40.9	4.8	269.1
140	42	14.2	19.8	41.0	34.1	3.3	237.7
	44	14.9	20.2	41.6	35.8	3.7	247.1
	45	15.2	20.4	42.0	36.5	3.8	251.8
	46	15.6	20.4	42.2	37.5	4.0	256.7

Table 7

DRLC-30-2W

جدول شماره ۱۷

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	27.8	19.8	42.2	66.7	12.9	80.2	9.0
	44	29.0	19.8	42.2	69.6	14.0	83.1	9.7
	45	29.6	19.8	42.2	71.1	14.6	84.6	10.0
	46	30.3	19.8	42.2	72.6	15.2	86.1	10.4
90	42	26.8	21.0	44.4	64.4	12.0	78.7	8.7
	44	28.0	21.0	44.4	67.3	13.1	81.6	9.3
	45	28.6	21.0	44.6	68.7	13.6	83.1	9.7
	46	29.3	21.0	44.6	70.2	14.2	84.6	10.0
95	42	25.9	22.0	46.4	62.2	11.2	77.3	8.4
	44	27.1	22.2	46.6	64.9	12.2	80.1	9.0
	45	27.6	22.2	46.8	66.4	12.7	81.6	9.3
	46	28.2	22.4	46.8	67.8	13.3	83.0	9.7
100	42	25.0	23.2	48.4	60.0	10.4	75.8	8.1
	44	26.1	23.4	48.8	62.6	11.3	78.6	8.7
	45	26.7	23.4	48.8	64.0	11.8	80.0	9.0
	46	27.3	23.6	49.0	65.4	12.4	81.5	9.3
105	42	24.1	24.2	50.4	57.7	9.6	74.3	7.7
	44	25.1	24.6	50.8	60.3	10.5	77.1	8.3
	45	25.7	24.6	51.0	61.7	11.0	78.5	8.6
	46	26.3	24.8	51.2	63.0	11.5	79.9	9.0

Table 18

DRLC-30-2A

جدول شماره ۱۸

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	23.9	24.2	50.4	57.5	9.5	370.1
	44	25.0	24.6	50.8	60.1	10.4	383.9
	45	25.7	24.6	51.0	61.6	10.9	391.0
	46	26.2	24.8	51.2	62.8	11.4	398.2
120	42	23.1	25.2	52.2	55.4	8.9	363.0
	44	24.1	25.6	52.8	57.9	9.7	376.6
	45	24.6	25.8	53.2	59.1	10.1	383.6
	46	25.2	25.8	53.4	60.6	10.6	390.6
125	42	22.2	26.2	54.2	53.3	8.2	355.8
	44	23.2	26.6	54.8	55.8	9.0	369.3
	45	23.7	26.8	55.2	56.9	9.4	376.1
	46	24.3	27.0	55.4	58.3	9.8	383.1
130	42	21.4	27.2	56.0	51.3	7.6	348.6
	44	22.4	27.6	56.8	53.7	8.3	361.9
	45	22.8	27.8	57.2	54.8	8.7	368.6
	46	23.4	28.0	57.6	56.1	9.1	375.4
140	42	19.7	29.0	59.6	47.3	6.5	334.2
	44	20.6	29.4	60.6	49.5	7.1	346.9
	45	21.0	29.6	61.2	50.5	7.4	353.4
	46	21.6	29.8	61.6	51.8	7.8	360.0

Table19

DRLC-40-2W

جدول شماره ۱۹

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	37.5	26.4	55.8	89.9	13.9	107.6	12.0
	44	39.1	26.4	56.0	93.7	15.2	111.5	12.9
	45	39.9	26.6	56.0	95.7	15.8	113.4	13.4
	46	40.7	26.6	56.0	97.7	16.5	115.4	13.9
90	42	35.9	27.8	58.2	86.3	12.8	105.2	11.5
	44	37.5	27.8	58.4	90.0	14.0	109.0	12.4
	45	38.3	28.0	58.4	91.9	14.6	111.0	12.8
	46	39.1	28.0	58.6	93.8	15.2	113.0	13.3
95	42	34.6	29.0	60.4	83.0	11.9	102.9	11.0
	44	36.1	29.2	60.6	86.7	13.0	106.6	11.8
	45	36.9	29.4	60.8	88.5	13.5	108.6	12.3
	46	37.7	29.4	61.0	90.4	14.1	110.5	12.7
100	42	33.3	30.2	62.6	79.9	11.0	100.5	10.5
	44	34.7	30.6	63.0	83.4	12.0	104.3	11.3
	45	35.5	30.6	63.2	85.2	12.5	106.1	11.7
	46	36.3	30.8	63.4	87.1	13.1	108.1	12.2
105	42	32.0	31.4	64.6	76.8	10.2	98.2	10.0
	44	33.4	31.8	65.2	80.2	11.1	101.9	10.8
	45	34.1	32.0	65.4	81.9	11.6	103.7	11.2
	46	34.9	32.0	65.8	83.7	12.1	105.6	11.6

Table20

DRLC-40-2A

جدول شماره ۲۰

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	31.8	31.4	64.6	76.4	10.1	489.3
	44	33.3	31.8	65.2	79.9	11.0	507.5
	45	34.1	32.0	65.4	81.8	11.6	516.8
	46	34.8	32.0	65.8	83.4	12.0	526.3
120	42	30.6	32.6	66.8	73.4	9.3	478.2
	44	32.0	33.0	67.4	76.8	10.2	496.1
	45	32.6	33.2	67.8	78.3	10.6	505.2
	46	33.4	33.4	68.0	80.2	11.1	514.5
125	42	29.4	33.8	68.8	70.5	8.6	467.0
	44	30.7	34.2	69.6	73.7	9.4	484.6
	45	31.3	34.4	70.0	75.2	9.8	493.5
	46	32.1	34.6	70.2	77.1	10.2	502.6
130	42	28.1	34.8	70.8	67.5	7.9	455.7
	44	29.4	35.4	71.6	70.6	8.6	473.0
	45	30.0	35.6	72.0	72.1	9.0	481.7
	46	30.8	35.8	72.4	73.9	9.4	490.7
140	42	25.6	37.0	74.6	61.5	6.5	432.6
	44	26.8	37.6	75.8	64.4	7.2	449.2
	45	27.4	38.0	76.4	65.7	7.5	457.6
	46	28.1	38.2	76.8	67.4	7.8	466.2

Table21

DRLC-50-2W

جدول شماره ۲۱

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	49.2	35.0	77.8	118.0	24.0	141.8	22.4
	44	51.4	35.2	78.0	123.4	26.2	147.4	24.1
	45	52.6	35.2	78.2	126.2	27.4	150.2	25.1
	46	53.7	35.2	78.2	129.0	28.6	153.0	26.0
90	42	47.3	36.8	80.6	113.4	22.2	138.5	21.3
	44	49.5	37.0	81.0	118.7	24.3	144.0	23.0
	45	50.6	37.2	81.2	121.4	25.4	146.7	23.9
	46	51.7	37.2	81.2	124.1	26.5	149.5	24.9
95	42	45.4	38.6	83.2	109.0	20.4	135.3	20.3
	44	47.5	38.8	83.6	114.1	22.4	140.6	22.0
	45	48.6	39.0	84.0	116.7	23.4	143.3	22.8
	46	49.7	39.2	84.2	119.3	24.5	146.1	23.7
100	42	43.6	40.2	85.6	104.6	18.8	132.0	19.4
	44	45.6	40.6	86.4	109.5	20.6	137.2	20.9
	45	46.7	40.8	86.8	112.1	21.6	139.9	21.8
	46	47.8	41.0	87.2	114.6	22.6	142.6	22.6
105	42	41.8	41.8	88.2	100.2	17.3	128.7	18.4
	44	43.8	42.2	89.0	105.0	19.0	133.9	19.9
	45	44.8	42.6	89.6	107.5	19.9	136.5	20.7
	46	45.8	42.8	90.0	110.0	20.8	139.2	21.5

Table22

DRLC-50-2A

جدول شماره ۲۲

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	41.6	41.8	88.2	99.8	17.1	641.2
	44	43.6	42.2	89.0	104.6	18.8	667.1
	45	44.7	42.6	89.6	107.3	19.8	680.3
	46	45.7	42.8	90.0	109.6	20.7	693.7
120	42	39.9	43.2	90.6	95.7	15.8	625.6
	44	41.8	43.8	91.6	100.4	17.3	651.0
	45	42.7	44.2	92.2	102.5	18.1	663.9
	46	43.8	44.4	92.6	105.2	19.1	677.1
125	42	38.2	44.6	93.0	91.6	14.5	610.0
	44	40.1	45.4	94.2	96.2	15.9	634.9
	45	40.9	45.6	94.8	98.3	16.6	647.6
	46	42.0	46.0	95.4	100.9	17.5	660.5
130	42	36.5	46.0	95.2	87.7	13.2	594.4
	44	38.4	46.8	96.6	92.1	14.6	618.8
	45	39.2	47.2	97.4	94.1	15.2	631.3
	46	40.2	47.4	98.0	96.6	16.1	643.9
140	42	33.3	48.4	99.8	80.0	11.0	563.2
	44	35.0	49.2	101.4	84.0	12.2	586.6
	45	35.8	49.8	102.4	85.9	12.7	598.6
	46	36.8	50.2	103.2	88.2	13.4	610.7

Table23

DRLC-60-2W

جدول شماره ۲۳

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	53.0	39.8	88.0	127.1	17.8	154.3	10.7
	44	55.2	40.0	88.2	132.5	19.4	159.8	11.5
	45	56.4	40.0	88.4	135.3	20.2	162.6	11.9
	46	57.5	40.0	88.4	138.1	21.0	165.4	12.4
90	42	51.2	41.8	91.0	122.9	16.7	151.5	10.4
	44	53.4	42.0	91.6	128.3	18.1	157.0	11.1
	45	54.6	42.2	91.8	131.0	18.9	159.7	11.5
	46	55.7	42.2	92.0	133.7	19.7	162.6	11.9
95	42	49.5	43.6	94.0	118.7	15.6	148.5	10.0
	44	51.6	44.0	94.6	124.0	16.9	154.0	10.7
	45	52.8	44.2	95.0	126.6	17.7	156.8	11.1
	46	53.9	44.4	95.2	129.3	18.4	159.6	11.5
100	42	47.7	45.4	97.0	114.5	14.5	145.5	9.6
	44	49.8	46.0	97.8	119.6	15.8	151.0	10.3
	45	50.9	46.2	98.2	122.2	16.5	153.7	10.7
	46	52.0	46.4	98.4	124.9	17.2	156.5	11.1
105	42	45.9	47.2	99.8	110.2	13.4	142.4	9.2
	44	48.0	47.8	100.6	115.2	14.7	147.8	9.9
	45	49.1	48.0	101.2	117.8	15.3	150.6	10.2
	46	50.2	48.2	101.6	120.4	16.0	153.3	10.6

Table24

DRLC-60-2A

جدول شماره ۲۴

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	45.7	47.2	99.8	109.7	13.3	709.4
	44	47.8	47.8	100.6	114.8	14.5	736.5
	45	49.0	48.0	101.2	117.6	15.3	750.3
	46	50.0	48.2	101.6	120.0	15.9	764.2
120	42	44.0	48.8	102.4	105.6	12.3	694.1
	44	46.1	49.4	103.6	110.5	13.5	720.9
	45	47.0	49.8	104.0	112.8	14.0	734.6
	46	48.2	50.0	104.6	115.6	14.8	748.4
125	42	42.3	50.2	104.8	101.5	11.4	678.2
	44	44.3	51.0	106.2	106.3	12.5	704.8
	45	45.2	51.4	106.8	108.5	13.0	718.4
	46	46.4	51.8	107.6	111.3	13.7	732.1
130	42	40.6	51.6	107.2	97.4	10.5	661.9
	44	42.5	52.4	108.8	102.1	11.5	688.3
	45	43.4	52.8	109.6	104.2	12.0	701.7
	46	44.5	53.4	110.2	106.9	12.6	715.3
140	42	37.1	54.0	111.6	89.1	8.8	627.7
	44	39.0	55.0	113.4	93.5	9.7	653.7
	45	39.8	55.6	114.4	95.6	10.1	666.9
	46	40.9	56.0	115.4	98.1	10.6	680.2



Table25

DRLC-80-2W

جدول شماره ۲۵

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	69.4	56.4	126.0	166.7	14.9	205.2	11.3
	44	72.4	57.0	126.8	173.8	16.2	212.7	12.1
	45	73.9	57.2	127.2	177.4	16.8	216.4	12.6
	46	75.5	57.4	127.6	181.1	17.6	220.3	13.0
90	42	67.2	58.8	129.8	161.2	13.9	201.4	10.9
	44	70.1	59.4	131.0	168.2	15.1	208.8	11.7
	45	71.6	59.8	131.4	171.7	15.8	212.5	12.1
	46	73.1	60.0	132.0	175.3	16.5	216.3	12.5
95	42	64.9	61.2	133.8	155.8	13.0	197.6	10.5
	44	67.7	61.8	135.0	162.6	14.1	204.8	11.2
	45	69.2	62.2	135.6	166.1	14.8	208.5	11.7
	46	70.7	62.6	136.2	169.6	15.4	212.3	12.1
100	42	62.7	63.4	137.4	150.4	12.1	193.7	10.1
	44	65.4	64.2	139.0	157.1	13.2	200.9	10.8
	45	66.8	64.6	139.8	160.4	13.8	204.5	11.2
	46	68.3	65.0	140.4	163.9	14.4	208.2	11.6
105	42	60.5	65.4	141.2	145.1	11.3	189.8	9.7
	44	63.1	66.4	142.8	151.6	12.3	196.9	10.4
	45	64.5	66.8	143.8	154.8	12.8	200.5	10.8
	46	65.9	67.2	144.6	158.2	13.4	204.1	11.2

Table26

DRLC-80-2A

جدول شماره ۲۶

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	60.3	65.4	141.2	144.6	11.2	945.3
	44	63.0	66.4	142.8	151.1	12.2	980.8
	45	64.5	66.8	143.8	154.8	12.8	998.9
	46	65.8	67.2	144.6	157.9	13.3	1017.3
120	42	58.1	67.4	144.6	139.4	10.4	926.4
	44	60.7	68.4	146.8	145.7	11.4	961.4
	45	61.9	69.0	147.8	148.6	11.8	979.3
	46	63.4	69.4	148.8	152.2	12.4	997.3
125	42	56.0	69.2	148.2	134.4	9.7	907.4
	44	58.6	70.4	150.4	140.5	10.6	941.8
	45	59.7	71.0	151.6	143.3	11.0	959.4
	46	61.2	71.6	152.8	146.9	11.5	977.2
130	42	53.9	71.0	151.6	129.5	9.0	888.1
	44	56.4	72.2	154.0	135.4	9.8	922.0
	45	57.5	72.8	155.4	138.1	10.2	939.3
	46	59.0	73.4	156.6	141.5	10.7	956.8
140	42	49.9	74.0	158.0	119.7	7.7	849.1
	44	52.2	75.6	161.2	125.2	8.4	881.9
	45	53.2	76.4	162.6	127.8	8.7	898.6
	46	54.6	77.0	164.2	131.0	9.2	915.6

Table27

DRLC-30-3W

جدول شماره ۲۷

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	30.8	20.7	44.7	73.8	15.7	87.8	10.2
	44	32.1	20.7	44.7	77.1	17.2	91.2	11.0
	45	32.8	20.7	44.4	78.8	17.9	92.8	11.4
	46	33.5	20.7	44.4	80.5	18.7	94.6	11.8
90	42	29.6	21.9	46.8	71.1	14.6	86.0	9.8
	44	31.0	21.9	46.8	74.3	15.9	89.2	10.5
	45	31.7	21.9	46.8	76.0	16.7	90.9	10.9
	46	32.4	21.9	46.8	77.7	17.4	92.6	11.3
95	42	28.5	22.8	48.9	68.5	13.5	84.1	9.4
	44	29.8	23.1	49.2	71.6	14.8	87.3	10.1
	45	30.5	23.1	49.2	73.2	15.5	88.9	10.5
	46	31.2	23.1	49.2	74.8	16.2	90.6	10.9
100	42	27.4	24.0	51.0	65.9	12.5	82.3	8.9
	44	28.7	24.3	51.3	68.9	13.7	85.4	9.5
	45	29.4	24.3	51.3	70.5	14.4	87.0	10.0
	46	30.0	24.3	51.3	72.0	15.0	88.6	10.4
105	42	26.4	25.2	52.8	63.3	11.6	80.4	8.5
	44	27.6	25.2	53.1	66.2	12.7	83.5	9.2
	45	28.2	25.5	53.4	67.7	13.2	85.1	9.5
	46	28.9	25.5	53.7	69.3	13.9	86.7	9.9

Table28

DRLC-30-3A

جدول شماره ۲۸

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	26.2	25.2	52.8	63.0	11.5	400.5
	44	27.5	25.2	53.1	66.0	12.6	416.0
	45	28.2	25.5	53.4	67.6	13.2	423.9
	46	28.8	25.5	53.7	69.0	13.8	431.9
120	42	25.2	26.1	54.6	60.6	10.6	391.7
	44	26.4	26.4	55.2	63.4	11.6	406.9
	45	27.0	26.4	55.5	64.8	12.1	414.6
	46	27.7	26.7	55.8	66.4	12.7	422.5
125	42	24.2	27.0	56.4	58.2	9.8	382.9
	44	25.4	27.3	57.0	60.9	10.7	397.8
	45	25.9	27.6	57.3	62.2	11.2	405.4
	46	26.6	27.6	57.6	63.8	11.8	413.1
130	42	23.3	27.9	58.2	55.8	9.0	374.1
	44	24.4	28.5	59.1	58.5	9.9	388.7
	45	24.9	28.5	59.4	59.7	10.3	396.2
	46	25.5	28.8	59.7	61.3	10.8	403.7
140	42	21.3	29.7	61.5	51.2	7.6	356.6
	44	22.4	30.3	62.4	53.7	8.3	370.6
	45	22.8	30.6	63.0	54.8	8.7	377.8
	46	23.4	30.6	63.3	56.3	9.1	385.0

Table29

DRLC-45-3W

جدول شماره ۲۹

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	41.7	29.7	63.3	100.1	17.3	120.3	9.0
	44	43.5	29.7	63.3	104.5	18.8	124.7	9.7
	45	44.5	29.7	63.3	106.7	19.6	126.9	10.0
	46	45.4	29.7	63.3	109.0	20.4	129.2	10.4
90	42	40.3	31.5	66.6	96.7	16.1	118.1	8.7
	44	42.0	31.5	66.6	100.9	17.5	122.4	9.3
	45	43.0	31.5	66.9	103.1	18.3	124.6	9.7
	46	43.9	31.5	66.9	105.3	19.1	126.8	10.0
95	42	38.9	33.0	69.6	93.3	15.0	115.9	8.4
	44	40.6	33.3	69.9	97.4	16.3	120.2	9.0
	45	41.5	33.3	70.2	99.5	17.1	122.3	9.3
	46	42.4	33.6	70.2	101.7	17.8	124.5	9.7
100	42	37.5	34.8	72.6	89.9	13.9	113.7	8.1
	44	39.1	35.1	73.2	93.9	15.2	117.9	8.7
	45	40.0	35.1	73.2	96.0	15.9	120.0	9.0
	46	40.9	35.4	73.5	98.1	16.6	122.2	9.3
105	42	36.1	36.3	75.6	86.6	12.9	111.5	7.7
	44	37.7	36.9	76.2	90.5	14.1	115.6	8.3
	45	38.5	36.9	76.5	92.5	14.7	117.7	8.5
	46	39.4	37.2	76.8	94.6	15.4	119.9	9.0

Table30

DRLC-45-3A

جدول شماره ۳۰

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	36.0	36.3	75.6	86.3	12.8	555.1
	44	37.6	36.9	76.2	90.2	14.0	575.9
	45	38.4	36.9	76.5	92.2	14.6	586.5
	46	39.3	37.2	76.8	94.2	15.3	597.3
120	42	34.7	37.8	78.3	83.2	11.9	544.5
	44	36.2	38.4	79.2	86.9	13.0	564.9
	45	37.0	38.7	79.8	88.9	13.6	575.4
	46	37.9	38.7	80.1	91.1	14.3	586.0
125	42	33.4	39.3	81.3	80.1	11.0	533.7
	44	34.9	39.9	82.2	83.7	12.1	553.9
	45	35.7	40.2	82.8	85.6	12.6	564.2
	46	36.6	40.5	83.1	87.7	13.2	574.6
130	42	32.1	40.8	84.0	77.0	10.2	523.0
	44	33.6	41.4	85.2	80.5	11.2	542.8
	45	34.3	41.7	85.8	82.3	11.7	552.9
	46	35.2	42.0	86.4	84.4	12.3	563.2
140	42	30.0	43.5	89.4	71.0	8.7	501.2
	44	31.0	44.1	90.9	74.3	9.5	520.4
	45	31.7	44.4	91.8	76.0	9.9	530.2
	46	32.5	44.7	92.4	77.9	10.5	540.1

Table31

DRLC-60-3W

جدول شماره ۳۱

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	56.0	39.6	83.7	134.3	19.9	161.3	12.0
	44	58.4	39.6	84.0	140.0	21.6	167.2	12.9
	45	59.6	39.9	84.0	143.0	22.6	170.2	13.4
	46	60.8	39.9	84.0	146.0	23.5	173.2	13.9
90	42	53.9	41.7	87.3	129.4	18.5	157.8	11.5
	44	56.2	41.7	87.6	135.0	20.1	163.5	12.4
	45	57.4	42.0	87.6	137.9	21.0	166.5	12.8
	46	58.7	42.0	87.9	140.8	21.9	169.4	13.3
95	42	51.9	43.5	90.6	124.6	17.1	154.3	11.0
	44	54.2	43.8	90.9	130.0	18.6	159.9	11.8
	45	55.3	44.1	91.2	132.8	19.5	162.8	12.3
	46	56.5	44.1	91.5	135.6	20.3	165.7	12.7
100	42	49.9	45.3	93.9	119.8	15.8	150.8	10.5
	44	52.1	45.9	94.5	125.1	17.3	156.4	11.3
	45	53.3	45.9	94.8	127.8	18.0	159.2	11.7
	46	54.4	46.2	95.1	130.6	18.8	162.1	12.2
105	42	48.0	47.1	96.9	115.1	14.6	147.4	10.0
	44	50.1	47.7	97.8	120.3	16.0	152.8	10.8
	45	51.2	48.0	98.1	122.9	16.7	155.6	11.2
	46	52.3	48.0	98.7	125.6	17.4	158.4	11.6

Table32

DRLC-60-3A

جدول شماره ۳۲

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	47.8	47.1	96.9	114.7	14.5	733.9
	44	49.9	47.7	97.8	119.8	15.8	761.3
	45	51.0	48.0	98.1	122.5	16.6	775.3
	46	52.1	48.0	98.7	125.2	17.3	789.4
120	42	46.0	48.9	100.2	110.3	13.4	717.3
	44	48.0	49.5	101.1	115.2	14.6	744.1
	45	49.1	49.8	101.7	117.7	15.3	757.8
	46	50.3	50.1	102.0	120.6	16.1	771.7
125	42	44.1	50.7	103.2	105.8	12.4	700.5
	44	46.1	51.3	104.4	110.6	13.5	726.9
	45	47.1	51.6	105.0	113.0	14.1	740.3
	46	48.3	51.9	105.3	115.9	14.8	753.9
130	42	42.2	52.2	106.2	101.4	11.3	683.6
	44	44.2	53.1	107.4	106.0	12.4	709.4
	45	45.1	53.4	108.0	108.3	12.9	722.6
	46	46.3	53.7	108.6	111.1	13.6	736.0
140	42	38.4	55.5	111.9	92.2	9.4	648.9
	44	40.3	56.4	113.7	96.6	10.3	673.7
	45	41.2	57.0	114.6	98.8	10.8	686.4
	46	42.2	57.3	115.2	101.4	11.3	699.3

Table33

DRLC-75-3W

جدول شماره ۳۳

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	73.7	52.5	116.7	177.0	25.6	212.7	22.4
	44	77.1	52.8	117.0	185.1	28.0	221.0	24.1
	45	78.8	52.8	117.3	189.2	29.3	225.3	25.1
	46	80.6	52.8	117.3	193.5	30.6	229.5	26.0
90	42	70.9	55.2	120.9	170.1	23.7	207.8	21.3
	44	74.2	55.5	121.5	178.0	25.9	216.0	23.0
	45	75.9	55.8	121.8	182.1	27.1	220.1	23.9
	46	77.6	55.8	121.8	186.2	28.3	224.3	24.9
95	42	68.1	57.9	124.8	163.4	21.8	202.9	20.3
	44	71.3	58.2	125.4	171.1	23.9	210.9	22.0
	45	72.9	58.5	126.0	175.0	25.0	215.0	22.8
	46	74.6	58.8	126.3	179.0	26.2	219.1	23.7
100	42	65.4	60.3	128.4	156.8	20.1	198.0	19.4
	44	68.4	60.9	129.6	164.3	22.1	205.9	20.9
	45	70.0	61.2	130.2	168.1	23.1	209.9	21.8
	46	71.6	61.5	130.8	171.9	24.2	214.0	22.6
105	42	62.6	62.7	132.3	150.4	18.5	193.1	18.4
	44	65.6	63.3	133.5	157.6	20.3	200.9	19.9
	45	67.2	63.9	134.4	161.2	21.3	204.8	20.7
	46	68.7	64.2	135.0	165.0	22.3	208.8	21.5

Table34

DRLC-75-3A

جدول شماره ۳۴

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	62.3	62.7	132.3	149.6	18.3	961.8
	44	65.4	63.3	133.5	156.9	20.1	1000.6
	45	67.1	63.9	134.4	161.0	21.2	1020.4
	46	68.5	64.2	135.0	164.4	22.1	1040.5
120	42	59.8	64.8	135.9	143.5	16.8	938.4
	44	62.7	65.7	137.4	150.5	18.5	976.5
	45	64.1	66.3	138.3	153.8	19.3	995.9
	46	65.8	66.6	138.9	157.8	20.4	1015.6
125	42	57.3	66.9	139.5	137.5	15.5	915.0
	44	60.1	68.1	141.3	144.3	17.0	952.3
	45	61.4	68.4	142.2	147.4	17.8	971.4
	46	63.0	69.0	143.1	151.3	18.7	990.7
130	42	54.8	69.0	142.8	131.5	14.1	891.6
	44	57.5	70.2	144.9	138.1	15.6	928.2
	45	58.8	70.8	146.1	141.1	16.3	946.9
	46	60.4	71.1	147.0	144.9	17.2	965.8
140	42	50.0	72.6	149.7	120.0	11.8	844.8
	44	52.5	73.8	152.1	126.0	13.0	879.9
	45	53.7	74.7	153.6	128.8	13.6	897.9
	46	55.1	75.3	154.8	132.4	14.3	916.1

Table35

DRLC-90-3W

جدول شماره ۳۵

Condenser water leaving Temp. °F	E.W.L.T. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	79.4	59.7	132.0	190.7	11.6	231.4	10.7
	44	82.8	60.0	132.3	198.8	12.6	239.7	11.5
	45	84.6	60.0	132.6	202.9	13.1	243.9	11.9
	46	86.3	60.0	132.6	207.1	13.7	248.2	12.4
90	42	76.8	62.7	136.5	184.4	10.8	227.2	10.4
	44	80.2	63.0	137.4	192.4	11.8	235.4	11.1
	45	81.9	63.3	137.7	196.4	12.3	239.6	11.5
	46	83.6	63.3	138.0	200.6	12.8	243.9	11.9
95	42	74.2	65.4	141.0	178.1	10.1	222.8	10.1
	44	77.5	66.0	141.9	185.9	11.0	231.0	10.7
	45	79.1	66.3	142.5	189.9	11.5	235.2	11.1
	46	80.8	66.6	142.8	194.0	12.0	239.4	11.5
100	42	71.6	68.1	145.5	171.8	9.4	218.3	9.6
	44	74.8	69.0	146.7	179.4	10.3	226.5	10.3
	45	76.4	69.3	147.3	183.3	10.7	230.6	10.7
	46	78.0	69.6	147.6	187.3	11.2	234.8	11.1
105	42	68.9	70.8	149.7	165.4	8.7	213.6	9.2
	44	72.0	71.7	150.9	172.9	9.5	221.7	9.9
	45	73.6	72.0	151.8	176.7	10.0	225.9	10.2
	46	75.2	72.3	152.4	180.6	10.4	230.0	10.6

Table36

DRLC-90-3A

جدول شماره ۳۶

Condenser water leaving Temp. °F	E.W.L.T. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	68.6	70.8	149.7	164.6	8.6	1084.1
	44	71.7	71.7	150.9	172.1	9.5	1104.7
	45	73.5	72.0	151.8	176.4	9.9	1125.4
	46	75.0	72.3	152.4	180.0	10.3	1146.3
120	42	66.0	73.2	153.6	158.4	8.0	1041.1
	44	69.1	74.1	155.4	165.8	8.8	1081.4
	45	70.5	74.7	156.0	169.2	9.1	1101.8
	46	72.3	75.0	156.9	173.5	9.6	1122.5
125	42	63.4	75.3	157.2	152.2	7.4	1017.3
	44	66.4	76.5	159.3	159.5	8.1	1057.2
	45	67.8	77.1	160.2	162.8	8.5	1077.5
	46	69.6	77.7	161.4	166.9	8.9	1098.1
130	42	60.8	77.4	160.8	146.0	5.8	992.8
	44	63.8	78.6	163.2	153.1	7.5	1032.4
	45	65.1	79.2	164.4	156.3	7.8	1052.5
	46	66.8	80.1	165.3	160.4	8.2	1072.9
140	42	55.7	81.0	167.4	133.6	5.7	941.6
	44	58.5	82.5	170.1	140.3	6.3	980.5
	45	59.7	83.4	171.6	143.4	6.6	1000.3
	46	61.3	84.0	173.1	147.2	6.9	1020.3

Table37

DRLC-120-3W

جدول شماره ۳۷

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	104.2	84.6	189.0	250.0	16.3	307.8	11.3
	44	108.6	85.5	190.2	260.7	17.7	319.0	12.1
	45	110.9	85.8	190.8	266.2	18.4	324.7	12.6
	46	113.2	86.1	191.4	271.7	19.2	330.4	13.0
90	42	100.8	88.2	194.7	241.8	15.2	302.1	10.9
	44	105.1	89.1	196.5	252.3	16.6	313.1	11.7
	45	107.3	89.7	197.1	257.6	17.3	318.8	12.1
	46	109.5	90.0	198.0	263.0	18.0	324.5	12.5
95	42	97.4	91.8	200.7	233.7	14.2	296.4	10.5
	44	101.6	92.7	202.5	243.9	15.5	307.3	11.2
	45	103.8	93.3	203.4	249.1	16.2	312.8	11.7
	46	106.0	93.9	204.3	254.4	16.8	318.4	12.1
100	42	94.0	95.1	206.1	225.7	13.3	290.5	10.1
	44	98.2	96.3	208.5	235.6	14.4	301.3	10.8
	45	100.3	96.9	209.7	240.7	15.1	306.8	11.2
	46	102.4	97.5	210.6	245.8	15.7	312.3	11.6
105	42	90.7	98.1	211.8	217.7	12.3	284.7	9.7
	44	94.7	99.6	214.2	227.3	13.5	295.3	10.4
	45	96.8	100.2	215.7	232.3	14.0	300.7	10.8
	46	98.9	100.8	216.9	237.3	14.7	306.2	11.2

Table38

DRLC-120-3A

جدول شماره ۳۸

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	90.4	98.1	211.8	216.9	12.3	1418.0
	44	94.4	99.6	214.2	226.5	13.4	1471.2
	45	96.5	100.2	215.7	231.5	14.0	1498.4
	46	98.5	100.8	216.9	236.5	14.6	1525.9
120	42	87.2	101.1	216.9	209.4	11.4	1389.7
	44	91.1	102.6	220.2	218.7	12.4	1442.1
	45	93.1	103.5	221.7	223.4	13.0	1468.9
	46	95.4	104.1	223.2	228.9	13.6	1496.0
125	42	84.0	103.8	222.3	201.6	10.6	1361.1
	44	87.8	105.6	225.6	210.8	11.6	1412.7
	45	89.6	106.5	227.4	215.0	12.0	1439.1
	46	91.8	107.4	229.2	220.3	12.6	1465.8
130	42	80.9	106.5	227.4	194.2	9.8	1332.2
	44	84.6	108.3	231.0	203.1	10.7	1383.0
	45	86.3	109.2	233.1	207.1	11.2	1409.0
	46	88.5	110.1	234.9	212.3	11.7	1435.2
140	42	74.8	111.0	237.0	179.5	8.4	1273.7
	44	78.3	113.4	241.8	187.9	9.2	1322.8
	45	79.9	114.6	243.9	191.6	9.6	1347.9
	46	81.9	115.5	246.3	196.5	10.1	1373.3

Table39

DRLC-80-4W

جدول شماره ۳۹

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	74.6	52.8	111.6	179.0	17.0	215.1	12.4
	44	77.8	52.8	112.0	186.7	18.5	222.9	13.3
	45	79.4	53.2	112.0	190.7	19.3	226.9	13.8
	46	81.1	53.2	112.0	194.6	20.1	230.9	14.3
90	42	71.9	55.6	116.4	172.5	15.8	210.4	11.9
	44	75.0	55.6	116.8	180.0	17.2	218.1	12.7
	45	76.6	56.0	116.8	183.8	17.9	222.0	13.2
	46	78.2	56.0	117.2	187.7	18.7	225.9	13.7
95	42	69.2	58.0	120.8	166.1	14.6	205.7	11.3
	44	72.2	58.4	121.2	173.4	15.9	213.3	12.2
	45	73.8	58.8	121.6	177.1	16.6	217.1	12.6
	46	75.4	58.8	122.0	180.8	17.3	221.0	13.1
100	42	66.6	60.4	125.2	159.8	13.5	201.1	10.8
	44	69.5	61.2	126.0	166.8	14.8	208.5	11.7
	45	71.0	61.2	126.4	170.4	15.4	212.3	12.1
	46	72.5	61.6	126.8	174.1	16.1	216.1	12.5
105	42	64.0	62.8	129.2	153.5	12.5	196.5	10.3
	44	66.8	63.6	130.4	160.4	13.6	203.8	11.1
	45	68.3	64.0	130.8	163.9	14.2	207.5	11.5
	46	69.8	64.0	131.6	167.5	14.9	211.2	12.0

Table40

DRLC-80-4A

جدول شماره ۴۰

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	63.7	62.8	129.2	153.0	12.4	978.5
	44	66.6	63.6	130.4	159.8	13.5	1015.1
	45	68.1	64.0	130.8	163.3	14.1	1033.7
	46	69.5	64.0	131.6	166.9	14.8	1052.6
120	42	61.3	65.2	133.6	147.1	11.5	956.3
	44	64.0	66.0	134.8	153.6	12.5	992.2
	45	65.4	66.4	135.6	157.0	13.1	1010.5
	46	67.0	66.8	136.0	160.8	13.7	1029.0
125	42	58.7	67.6	137.6	140.9	10.5	934.0
	44	61.4	68.4	139.2	147.5	11.5	969.2
	45	62.8	68.8	140.0	150.7	12.0	987.1
	46	64.4	69.2	140.4	154.5	12.6	1005.3
130	42	56.3	69.6	141.6	135.2	9.7	911.4
	44	58.9	70.8	143.2	141.3	10.6	945.9
	45	60.2	71.2	144.0	144.5	11.1	963.5
	46	61.7	71.6	144.8	148.1	11.6	981.3
140	42	51.2	74.0	149.2	122.9	8.0	865.2
	44	53.7	75.2	151.6	128.8	8.8	898.3
	45	54.8	76.0	152.8	131.4	9.2	915.2
	46	56.2	76.4	153.6	134.8	9.6	932.4



Table41

DRLC-100-4W

جدول شماره ۴۱

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	98.3	70.0	155.6	235.9	17.8	283.6	7.1
	44	102.8	70.4	156.0	246.8	19.4	294.7	7.7
	45	105.1	70.4	156.4	252.3	20.3	300.3	8.0
	46	107.5	70.4	156.4	257.9	21.2	306.0	8.3
90	42	94.5	73.6	161.2	226.9	16.4	277.1	6.8
	44	98.9	74.0	162.0	237.4	18.0	287.9	7.3
	45	101.1	74.4	162.4	242.8	18.8	293.5	7.6
	46	103.4	74.4	162.4	248.2	19.7	299.1	7.9
95	42	90.8	77.2	166.4	217.9	15.1	270.5	6.5
	44	95.1	77.6	167.2	228.1	16.6	281.2	7.0
	45	97.2	78.0	168.0	233.4	17.4	286.6	7.3
	46	99.4	78.4	168.4	238.7	18.2	292.2	7.5
100	42	87.1	80.4	171.2	209.1	14.0	264.0	6.2
	44	91.3	81.2	172.8	219.0	15.3	274.5	6.7
	45	93.4	81.6	173.6	224.1	16.0	279.8	6.9
	46	95.5	82.0	174.4	229.3	16.8	285.3	7.2
105	42	83.5	83.6	176.4	200.5	12.8	257.5	5.9
	44	87.5	84.4	178.0	210.1	14.1	267.8	6.3
	45	89.6	85.2	179.2	215.0	14.7	273.1	6.5
	46	91.7	85.6	180.0	220.0	15.4	278.4	6.8

Table42

DRLC-100-4A

جدول شماره ۴۲

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	83.1	83.6	176.4	199.5	12.7	1282.4
	44	87.2	84.4	178.0	209.2	14.0	1334.1
	45	89.4	85.2	179.2	214.6	14.7	1360.6
	46	91.3	85.6	180.0	219.2	15.3	1387.3
120	42	79.7	86.4	181.2	191.3	11.7	1251.2
	44	83.6	87.6	183.2	200.7	12.8	1301.9
	45	85.4	88.4	184.4	205.0	13.4	1327.9
	46	87.7	88.8	185.2	210.4	14.1	1354.1
125	42	76.4	89.2	186.0	183.3	10.7	1220.0
	44	80.1	90.8	188.4	192.3	11.8	1269.8
	45	81.9	91.2	189.6	196.5	12.3	1295.2
	46	84.1	92.0	190.8	201.7	13.0	1321.0
130	42	73.1	92.0	190.4	175.4	9.8	1188.9
	44	76.7	93.6	193.2	184.1	10.8	1237.6
	45	78.4	94.4	194.8	188.1	11.3	1262.5
	46	80.5	94.8	196.0	193.3	11.9	1287.8
140	42	66.6	96.8	199.6	159.9	8.2	1126.4
	44	70.0	98.4	202.8	168.0	9.0	1173.2
	45	71.6	99.6	204.8	171.8	9.4	1197.1
	46	73.5	100.4	206.4	176.5	9.9	1221.4

Table43

DRLC-120-4W

جدول شماره ۴۳

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	105.9	79.6	176.0	254.2	16.8	308.5	6.1
	44	110.4	80.0	176.4	265.0	18.3	319.6	6.5
	45	112.7	80.0	176.8	270.6	19.1	325.2	6.8
	46	115.1	80.0	176.8	276.2	19.9	330.9	7.1
90	42	102.4	83.6	182.0	245.9	15.7	302.9	5.9
	44	106.9	84.0	183.2	256.5	17.1	313.9	6.4
	45	109.1	84.4	183.6	261.9	17.9	319.5	6.6
	46	111.4	84.4	184.0	267.4	18.6	325.1	6.8
95	42	98.9	87.2	188.0	237.5	14.7	297.1	5.7
	44	103.3	88.0	189.2	247.9	16.0	308.0	6.1
	45	105.5	88.4	190.0	253.2	16.7	313.6	6.3
	46	107.8	88.8	190.4	258.6	17.4	319.2	6.5
100	42	95.4	90.8	194.0	229.0	13.7	291.1	5.5
	44	99.7	92.0	195.6	239.2	14.9	301.9	5.9
	45	101.9	92.4	196.4	244.4	15.6	307.5	6.1
	46	104.1	92.8	196.8	249.7	16.2	313.1	6.3
105	42	91.9	94.4	199.6	220.5	12.7	284.9	5.2
	44	96.0	95.6	201.2	230.5	13.8	295.7	5.5
	45	98.2	96.0	202.4	235.6	14.5	301.1	5.8
	46	100.3	96.4	203.2	240.8	15.1	306.7	6.1

Table44

DRLC-120-4A

جدول شماره ۴۴

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	91.4	94.4	199.6	219.4	12.5	1418.8
	44	95.6	95.6	201.2	229.5	13.7	1473.0
	45	98.0	96.0	202.4	235.2	14.4	1500.5
	46	100.0	96.4	203.2	240.0	15.0	1528.4
120	42	88.0	97.6	204.8	211.2	11.6	1388.1
	44	92.1	98.8	207.2	221.1	12.7	1441.8
	45	94.0	99.6	208.0	225.6	13.3	1469.1
	46	96.4	100.0	209.2	231.3	13.9	1496.7
125	42	84.6	100.4	209.6	203.0	10.7	1356.4
	44	88.6	102.0	212.4	212.6	11.8	1409.7
	45	90.4	102.8	213.6	217.1	12.3	1436.7
	46	92.7	103.6	215.2	222.6	12.9	1464.1
130	42	81.1	103.2	214.4	194.7	9.9	1323.7
	44	85.1	104.8	217.6	204.1	10.8	1376.5
	45	86.8	105.6	219.2	208.4	11.3	1403.4
	46	89.1	106.8	220.4	213.8	11.9	1430.5
140	42	74.2	108.0	223.2	178.1	8.3	1255.5
	44	77.9	110.0	226.8	187.1	9.1	1307.3
	45	79.6	111.2	228.8	191.1	9.5	1333.7
	46	81.8	112.0	230.8	196.3	10.0	1360.4

Table45

DRLC-160-4W

جدول شماره ۴۵

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Cooling water	
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	Flow rate [GPM]	Pressure drop [ft]
85	42	138.9	112.8	252.0	333.3	20.1	410.4	6.7
	44	144.8	114.0	253.6	347.6	21.8	425.3	7.2
	45	147.9	114.4	254.4	354.9	22.8	432.9	7.5
	46	151.0	114.8	255.2	362.3	23.7	440.6	7.9
90	42	134.4	117.6	259.6	322.4	18.8	402.8	6.5
	44	140.1	118.8	262.0	336.4	20.5	417.5	7.0
	45	143.1	119.6	262.8	343.5	21.3	425.0	7.2
	46	146.1	120.0	264.0	350.7	22.2	432.6	7.5
95	42	129.8	122.4	267.6	311.6	17.6	395.1	6.3
	44	135.5	123.6	270.0	325.2	19.1	409.7	6.7
	45	138.4	124.4	271.2	332.1	19.9	417.1	7.0
	46	141.3	125.2	272.4	339.2	20.8	424.6	7.2
100	42	125.4	126.8	274.8	300.9	16.4	387.4	6.0
	44	130.9	128.4	278.0	314.1	17.8	401.7	6.5
	45	133.7	129.2	279.6	320.9	18.6	409.1	6.7
	46	136.6	130.0	280.8	327.7	19.4	416.5	6.9
105	42	120.9	130.8	282.4	290.2	15.2	379.6	5.8
	44	126.3	132.8	285.6	303.1	16.6	393.7	6.2
	45	129.0	133.6	287.6	309.7	17.3	401.0	6.4
	46	131.8	134.4	289.2	316.4	18.1	408.3	6.7

Table46

DRLC-160-4A

جدول شماره ۴۶

Condenser water leaving Temp. °F	EWLT. °F	Actual Cap. [TON]	Electric		Chilled water		Heat Rejection [MBH]
			Power [KW]	Current [A]	Flow rate [GPM]	Pressure drop [ft]	
115	42	120.4	130.8	282.4	288.9	15.1	1890.6
	44	125.8	132.8	285.6	301.9	16.5	1961.6
	45	128.8	133.6	287.6	309.2	17.3	1997.9
	46	131.4	134.4	289.2	315.3	18.0	2034.6
120	42	116.2	134.8	289.2	278.8	14.1	1852.9
	44	121.4	136.8	293.6	291.4	15.4	1922.8
	45	123.8	138.0	295.6	297.2	16.0	1958.5
	46	126.9	138.8	297.6	304.5	16.8	1994.7
125	42	112.0	138.4	296.4	268.8	13.1	1814.7
	44	117.1	140.8	300.8	281.0	14.3	1883.6
	45	119.4	142.0	303.2	286.7	14.9	1918.8
	46	122.4	143.2	305.6	293.7	15.6	1954.4
130	42	107.9	142.0	303.2	258.9	12.1	1776.3
	44	112.8	144.4	308.0	270.8	13.3	1844.0
	45	115.1	145.6	310.8	276.2	13.8	1878.6
	46	117.9	146.8	313.2	283.1	14.5	1913.7
140	42	99.7	148.0	316.0	239.4	10.4	1698.2
	44	104.4	151.2	322.4	250.5	11.3	1763.8
	45	106.5	152.8	325.2	255.5	11.8	1797.2
	46	109.2	154.0	328.4	262.0	12.4	1831.1

Table 47

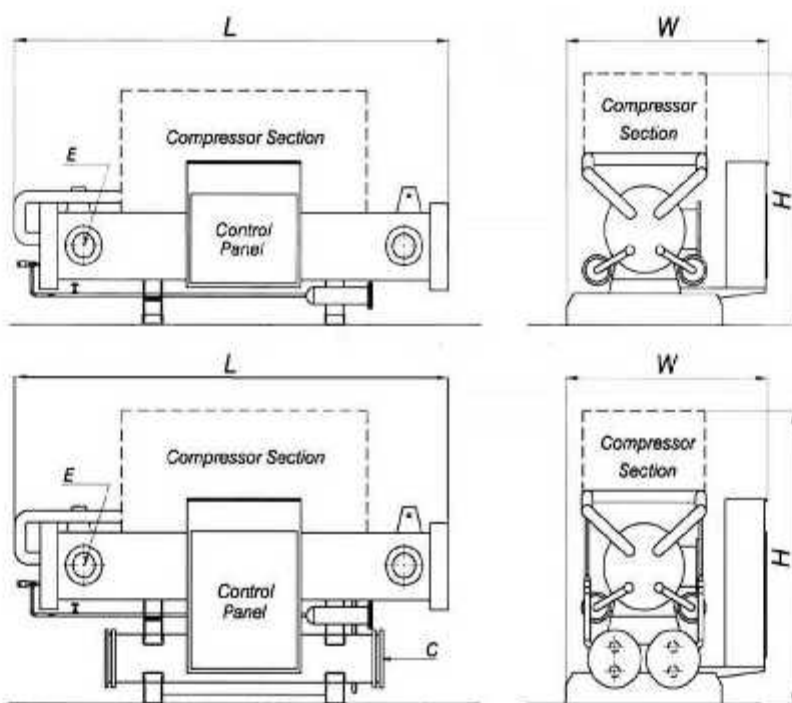
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جدول شماره ۴۷

MODEL	Compressor				System			Electric Power Source
	NO.	Max. Power [kw]	Name Plate Current [A]	Locked Rotor Current [A]	Full Load Current [A]	Max. Starting Current [A]	Wire Sizing Current [A]	
DRLC-7.5-1 W,A	1	11.7	23.0	81.0	23.0	81.0	29.0	380V/3PH/50Hz
DRLC-10-1 W,A	1	13.2	26.0	90.0	26.0	90.0	32.0	
DRLC-15-1 W,A	1	17.2	34.0	126.0	34.0	126.0	42.0	
DRLC-20-1 W,A	1	21.1	47.0	157.0	47.0	157.0	55.0	
DRLC-25-1 W,A	1	28.0	60.0	216.0	60.0	216.0	74.0	
DRLC-30-1 W,A	1	32.6	68.0	232.0	68.0	232.0	84.0	
DRLC-40-1 W,A	1	45.0	102.0	315.0	102.0	315.0	126.0	
DRLC-20-2 W,A	2	13.2	26.0	90.0	52.0	116.0	59.0	
DRLC-30-2 W,A	2	17.2	34.0	126.0	68.0	160.0	77.0	
DRLC-40-2 W,A	2	21.1	47.0	157.0	94.0	204.0	106.0	
DRLC-50-2 W,A	2	28.0	60.0	216.0	120.0	276.0	135.0	
DRLC-60-2 W,A	2	32.6	68.0	232.0	136.0	300.0	153.0	
DRLC-80-2 W,A	2	45.0	102.0	315.0	204.0	417.0	230.0	
DRLC-30-3 W,A	3	13.2	26.0	90.0	78.0	142.0	86.0	
DRLC-45-3 W,A	3	17.2	34.0	126.0	102.0	194.0	115.0	
DRLC-60-3 W,A	3	21.1	47.0	157.0	141.0	251.0	159.0	
DRLC-75-3 W,A	3	28.0	60.0	216.0	180.0	336.0	195.0	
DRLC-90-3 W,A	3	32.6	68.0	232.0	204.0	368.0	221.0	
DRLC-120-3 W,A	3	45.0	102.0	315.0	306.0	519.0	331.0	
DRLC-80-4 W,A	4	21.1	47.0	157.0	188.0	298.0	200.0	
DRLC-100-4 W,A	4	28.0	60.0	216.0	240.0	396.0	255.0	
DRLC-120-4 W,A	4	32.6	68.0	232.0	272.0	436.0	289.0	
DRLC-160-4 W,A	4	45.0	102.0	315.0	408.0	714.0	434.0	

Table 48

MODEL	WATER COOLED					AIR COOLED			
	L	W	H	E	C	L	W	H	E
DRLC-7.5-1 W,A	1700	950	1300	1½"	1¼"	1700	1000	970	1½"
DRLC-10-1 W,A	1800	950	1350	2"	1½"	1800	1000	970	2"
DRLC-15-1 W,A	2000	950	1400	2½"	1½"	2000	1000	1050	2½"
DRLC-20-1 W,A	2000	950	1400	2½"	1½"	2000	1000	1050	2½"
DRLC-25-1 W,A	2500	950	1450	3"	1½"	2500	1000	1050	3"
DRLC-30-1 W,A	2500	950	1450	3"	2"	2500	1000	1050	3"
DRLC-40-1 W,A	2800	950	1600	3"	3"	2800	1000	1150	3"
DRLC-20-2 W,A	2500	1200	1350	3"	1½"	2500	1300	1080	3"
DRLC-30-2 W,A	2500	1200	1400	3"	1½"	2500	1300	1150	3"
DRLC-40-2 W,A	2500	1200	1400	3"	1½"	2500	1300	1150	3"
DRLC-50-2 W,A	2900	1200	1450	3"	1½"	2900	1300	1150	3"
DRLC-60-2 W,A	2900	1200	1450	4"	2"	2900	1300	1150	4"
DRLC-80-2 W,A	3500	1200	1600	5"	3"	3500	1300	1250	5"
DRLC-30-3 W,A	2500	1250	1480	3"	1½", 1½"	2500	1400	1250	3"
DRLC-45-3 W,A	2900	1250	1530	3"	1½", 2"	2900	1400	1250	3"
DRLC-60-3 W,A	2900	1250	1550	4"	1½", 3"	2900	1400	1250	4"
DRLC-75-3 W,A	3500	1250	1600	5"	1½", 3"	3500	1400	1250	5"
DRLC-90-3 W,A	3500	1250	1600	5"	2", 3"	3500	1400	1250	5"
DRLC-120-3 W,A	3550	1250	1750	5"	3", 4"	3550	1400	1350	5"
DRLC-80-4 W,A	3500	1250	1580	5"	3", 3"	3500	1400	1290	5"
DRLC-100-4 W,A	3500	1250	1620	5"	3", 3"	3500	1400	1290	5"
DRLC-120-4 W,A	3550	1250	1620	5"	3", 3"	3550	1400	1290	5"
DRLC-160-4 W,A	3550	1250	1700	6"	4", 4"	3550	1400	1400	6"



• حق هرگز نه تغییرات در مدارجات فن کاتالوگ بدون اطلاع قبلی برای تولید کننده محفوظ است .



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