

Centrifugal Compressor Water Cooled Chillers

DWDC Chillers C Series

Nominal capacity range with R-134a or R-513A: 2100 - 9000 kW (600 - 2500 RT)

Nominal capacity range with R-1234ze: 1500 - 6700 kW (430 - 1900 RT)

50/60 Hz



Physical Data and Weights

Evaporator

Refrigerant side design pressure is 13,7bar on DWDC units.

DWDC evaporators are 13,7bar.

Standard water-side design pressure is 10bar (145psi) on DWDC. 16 bar (232psi) is available as option.

Evaporator Physical Data

code	Water Volume (L)	Insulation Area (m ²)	Vessel Dry Weight (kg)	Add for MWB (kg)	MWB Cover only, Weight (kg)
E3214	720	15	2750	355	202
E3814	1045	18	3680	570	344
E4414	1480	21	4830	770	498

Notes:

1. Water capacity is based on standard tube configuration and standard heads.
2. Vessel weight includes the shell, maximum tubes, and standard heads, no refrigerant.
3. MWB, marine water box, weight add is the water box weight minus a standard dished head weight.

Condenser

Refrigerant side design pressure is 13,7bar on DWDC units.

DWDC condensers are 13,7bar.

Standard water-side design pressure is 10bar (145psi) on DWDC. 16 bar (232psi) is available as option.

Condenser Physical Data

code	Water Volume (L)	Insulation Area (m ²)	Vessel Dry Weight (kg)	Add for MWB (kg)	MWB Cover only, Weight (kg)
C2814	702			270	143
C3014	1010	14	3320	330	191
C3214	1185	15	3760	355	202
C3814	1740	18	5200	570	344
C4214	2215	20,5	6560	655	410

Notes:

1. Water capacity is based on standard tube configuration and standard heads.
2. Vessel weight includes the shell, maximum tubes, and standard heads, no refrigerant.
3. MWB, marine water box, weight add is the water box weight minus a standard dished head weight

Compressor Weight

Code	Weight (kg)
079L	1440
087M	1440
100M	2700
113M	2700
126M	2700

**Complete Unit
Unit Weights, Single Compressor, DWDC**

Unit	Evaporator/Co ndenser Size	Unit Refrig. Charge (1) (kg)	Max. Unit Weight w/o Starter		Max. Unit Weight with Starter	
			Shipping (kg)	Operating (kg)	Shipping (kg)	Operating (kg)
DWDC113M DWDC126M	E3214-C3014	767	15589	17321	15773	17506
	E3214-C3214	811	16035	17940	16218	18125
	E3214-C3814	1054	17527	19757	17710	19942
	E3814-C3214	1105	18872	21657	19055	21842
	E3814-C3814	1381	20406	23627	20589	23812
	E3814-C4214	1428	21106	24528	21290	24713
	E4414-C4214	1447	21777	25471	21961	25656

Notes:

1. Weight of the Electrical box see VFD data.

1. Physical Data and Weights for component and unit included in this section are for rough layout purposes only. Detailed certified drawings, as pdf hard copies or CAD files, are available from the local sales office. Do not use catalog drawings for final construction.

2. Obtain specific unit certified drawings for detailed dimensions of water, oil cooler, and relief valve connections.