

Danfoss Optyma Blue Flat Base Units



Optyma Blue Flat Base Units

Standard Features

- Suitable for Multiple Refrigerants
(R134A, R513A, R404A/R507, R449A/R448A & R452A)
- Dedicated Low or Medium Temperature Units
- ebm papst 6 Pole AC Fan Motor Assemblies
- Maneurop Hermetic Reciprocating Compressors
- Compressor Oil Sight Glass
- PTC Crankcase Heater
- Service Shut Off Valves
- Dual Pressure Control
- Gomax Pressure Control Lines
- Liquid Line Drier & Sight Glass
- Liquid Receiver
- Compressor Contactor & Overload Relay
- Pre-wired to Electrical Box



Externally mounted Service Ports

- Fast and easy installation
- Quick connections of suction & liquid lines
- Shut off valves on receiver
- Service valves with ports for easy servicing

Micro Channel Condenser Coil

- Easy and fast cleaning
- Less refrigerant charge
- Longer life time
- High Efficiency



Danfoss Optyma Blue Flat Base Units

R134A – Medium Temperature Condensing Units

Airefrig Part Number	Compressor Model	Amb Temp °C	Refrigeration Capacity Watts Based on EN13215: 10k Superheat & 0K sub-cooling							Condensing Unit Information
			Evaporating Temperature °C							
			-20	-15	-10	-5	0	+5	+10	
OPMCRN038MTA14G (CSR Single Phase) Danfoss Unit Code: 114X5789 Unit Connections Liquid Line: 3/8" Suction Line: 1/2"	MTZ022-5VI Maneurop Recip Comp 175PZ oil (0.95L) Nom HP: 1-1/8 230v/1/50Hz MCC: 15.0 A LRA: 41.0 A	32	815	1179	1620	2145	2754	3447	4223	Total Unit Amps: 15.4 Fan Motor: Qty 1 Diameter: 350mm Voltage: 230v/1/50Hz Total Fan Amps: 0.35 Receiver: 3.0 Litres Unit Weight: 65.0kg Dimension Diagram: DFB01
		38	676	1017	1427	1912	2473	3111	3824	
		43	578	896	1277	1725	2243	2832	3491	
		46	528	830	1192	1616	2108	2666	3292	
OPMCRN048MTA14E (Three Phase) Danfoss Unit Code: 114X5792 Unit Connections Liquid Line: 1/2" Suction Line: 1/2"	MTZ028-4VI Maneurop Recip Comp 175PZ oil (0.95L) Nom HP: 1-1/2 400v/3/50Hz MCC: 7.5 A LRA: 29.0 A	32	1085	1494	2014	2656	3429	4337	5382	Total Unit Amps: 8.32 Fan Motor: Qty 1 Diameter: 450mm Voltage: 230v/1/50Hz Total Fan Amps: 0.65 Receiver: 5.2 Litres Unit Weight: 90.0kg Dimension Diagram: DFB02
		38	942	1323	1804	2397	3110	3948	4913	
		43	848	1199	1643	2190	2848	3623	4518	
		46	802	1134	1552	2069	2693	3429	4279	
OPMCRN060MTA14E (Three Phase) Danfoss Unit Code: 114X5794 Unit Connections Liquid Line: 1/2" Suction Line: 5/8"	MTZ036-4VI Maneurop Recip Comp 175PZ oil (0.95L) Nom HP: 2-1/8 400v/3/50Hz MCC: 9.0 A LRA: 38.0 A	32	1758	2330	3014	3815	4736	5778	6937	Total Unit Amps: 10.2 Fan Motor: Qty 1 Diameter: 500mm Voltage: 230v/1/50Hz Total Fan Amps: 0.97 Receiver: 5.2 Litres Unit Weight: 90.0kg Dimension Diagram: DFB03
		38	1564	2105	2745	3491	4347	5312	6385	
		43	1413	1921	2521	3217	4014	4913	5911	
		46	1326	1814	2387	3051	3811	4668	5620	
OPMCRN096MTA14E (Three Phase) Danfoss Unit Code: 114X5796 Unit Connections Liquid Line: 1/2" Suction Line: 7/8"	MTZ056-4VI Maneurop Recip Comp 175PZ oil (1.8L) Nom HP: 3.0 400v/3/50Hz MCC: 13.5 A LRA: 64.0 A	32	1999	2935	4093	5492	7145	9063	11249	Total Unit Amps: 13.7 Fan Motor: Qty 1 Diameter: 500mm Voltage: 230v/1/50Hz Total Fan Amps: 0.97 Receiver: 7.3 Litres Unit Weight: 140.0kg Dimension Diagram: DFB04
		38	1680	2541	3611	4908	6447	8237	10286	
		43	1442	2240	3234	4444	5885	7567	9499	
		46	1313	2072	3020	4176	5557	7174	9036	
OPMCRN108MTA14E (Three Phase) Danfoss Unit Code: 114X5797 Unit Connections Liquid Line: 1/2" Suction Line: 7/8"	MTZ064-4VI Maneurop Recip Comp 175PZ oil (1.8L) Nom HP: 3-5/8 400v/3/50Hz MCC: 13.5 A LRA: 64.0 A	32	2278	3385	4727	6319	8167	10273	12635	Total Unit Amps: 14.7 Fan Motor: Qty 1 Diameter: 500mm Voltage: 230v/1/50Hz Total Fan Amps: 0.97 Receiver: 7.3 Litres Unit Weight: 160.0kg Dimension Diagram: DFB04
		38	1910	2956	4214	5700	7422	9385	11587	
		43	1611	2607	3796	5194	6812	8654	10724	
		46	1435	2402	3550	4895	6450	8221	10211	

Note: Each unit is factory fitted with a PTC 75watt crankcase heater

Danfoss Optyma Blue Flat Base Units

R513A – Medium Temperature Condensing Units

Airefrig Part Number	Compressor Model	Amb Temp °C	Refrigeration Capacity Watts Based on EN13215: 10k Superheat & 0K sub-cooling							Condensing Unit Information
			Evaporating Temperature °C							
			-20	-15	-10	-5	0	+5	+10	
OPMCRN038MTA14G (CSR Single Phase) Danfoss Unit Code: 114X5789 Unit Connections Liquid Line: 3/8" Suction Line: 1/2"	MTZ022-5VI Maneurop Recip Comp 175PZ oil (0.95L) Nom HP: 1-1/8 230v/1/50Hz MCC: 15.0 A LRA: 41.0 A	32	956	1313	1744	2253	2840	3504	4243	Total Unit Amps: 15.4 Fan Motor: Qty 1 Diameter: 350mm Voltage: 230v/1/50Hz Total Fan Amps: 0.35 Receiver: 3.0 Litres Unit Weight: 65.0kg Dimension Diagram: DFB01
		38	836	1156	1545	2007	2544	3155	3838	
		43	749	1035	1388	1811	2305	2869	3505	
		46	702	968	1299	1697	2164	2701	3308	
OPMCRN048MTA14E (Three Phase) Danfoss Unit Code: 114X5792 Unit Connections Liquid Line: 1/2" Suction Line: 1/2"	MTZ028-4VI Maneurop Recip Comp 175PZ oil (0.95L) Nom HP: 1-1/2 400v/3/50Hz MCC: 7.5 A LRA: 29.0 A	32	1230	1686	2238	2890	3645	4506	5470	Total Unit Amps: 8.32 Fan Motor: Qty 1 Diameter: 450mm Voltage: 230v/1/50Hz Total Fan Amps: 0.65 Receiver: 5.2 Litres Unit Weight: 90.0kg Dimension Diagram: DFB02
		38	1096	1510	2011	2604	3294	4082	4969	
		43	992	1370	1829	2373	3007	3734	4556	
		46	932	1290	1722	2237	2838	3528	4310	
OPMCRN060MTA14E (Three Phase) Danfoss Unit Code: 114X5794 Unit Connections Liquid Line: 1/2" Suction Line: 5/8"	MTZ036-4VI Maneurop Recip Comp 175PZ oil (0.95L) Nom HP: 2-1/8 400v/3/50Hz MCC: 9.0 A LRA: 38.0 A	32	1671	2259	2953	3763	4690	5736	6900	Total Unit Amps: 10.2 Fan Motor: Qty 1 Diameter: 500mm Voltage: 230v/1/50Hz Total Fan Amps: 0.97 Receiver: 5.2 Litres Unit Weight: 90.0kg Dimension Diagram: DFB03
		38	1468	2018	2663	3412	4269	5235	6310	
		43	1288	1803	2405	3101	3897	4795	5796	
		46	1176	1669	2243	2907	3666	4523	5479	
OPMCRN096MTA14E (Three Phase) Danfoss Unit Code: 114X5796 Unit Connections Liquid Line: 1/2" Suction Line: 7/8"	MTZ056-4VI Maneurop Recip Comp 175PZ oil (1.8L) Nom HP: 3.0 400v/3/50Hz MCC: 13.5 A LRA: 64.0 A	32	2470	3425	4585	5962	7564	9396	11462	Total Unit Amps: 13.7 Fan Motor: Qty 1 Diameter: 500mm Voltage: 230v/1/50Hz Total Fan Amps: 0.97 Receiver: 7.3 Litres Unit Weight: 140.0kg Dimension Diagram: DFB04
		38	2144	3002	4054	5311	6783	8476	10394	
		43	1908	2683	3641	4796	6157	7732	9524	
		46	1784	2507	3407	4500	5793	7296	9012	
OPMCRN108MTA14E (Three Phase) Danfoss Unit Code: 114X5797 Unit Connections Liquid Line: 1/2" Suction Line: 7/8"	MTZ064-4VI Maneurop Recip Comp 175PZ oil (1.8L) Nom HP: 3-5/8 400v/3/50Hz MCC: 13.5 A LRA: 64.0 A	32	2875	3933	5209	6717	8466	10463	12711	Total Unit Amps: 14.7 Fan Motor: Qty 1 Diameter: 500mm Voltage: 230v/1/50Hz Total Fan Amps: 0.97 Receiver: 7.3 Litres Unit Weight: 160.0kg Dimension Diagram: DFB04
		38	2495	3456	4620	6003	7614	9461	11548	
		43	2203	3081	4150	5426	6920	8640	10592	
		46	2039	2866	3878	5089	6511	8155	10025	

Note: Each unit is factory fitted with a PTC 75watt crankcase heater

Danfoss Optyma Blue Flat Base Units

R404A / R507 – Medium Temperature Condensing Units

Airefrig Part Number	Compressor Model	Amb Temp °C	Refrigeration Capacity Watts Based on EN13215: 10k Superheat & 0K sub-cooling							Condensing Unit Information
			Evaporating Temperature °C							
			-20	-15	-10	-5	0	+5	+10	
OPMCRN038MTA14G (CSR Single Phase) Danfoss Unit Code: 114X5789 Unit Connections Liquid Line: 3/8" Suction Line: 1/2"	MTZ022-5VI Maneurop Recip Comp 175PZ oil (0.95L) Nom HP: 1-1/8 230v/1/50Hz MCC: 15.0 A LRA: 41.0 A	32	1741	2287	2917	3630	4418	5278	6200	Total Unit Amps: 15.4 Fan Motor: Qty 1 Diameter: 350mm Voltage: 230v/1/50Hz Total Fan Amps: 0.35 Receiver: 3.0 Litres Unit Weight: 65.0kg Dimension Diagram: DFB01
		38	1484	1969	2531	3167	3874	4648	5481	
		43	1277	1710	2212	2784	3423	-	-	
		46	1156	1556	2023	2556	3153	-	-	
OPMCRN048MTA14E (Three Phase) Danfoss Unit Code: 114X5792 Unit Connections Liquid Line: 1/2" Suction Line: 1/2"	MTZ028-4VI Maneurop Recip Comp 175PZ oil (0.95L) Nom HP: 1-1/2 400v/3/50Hz MCC: 7.5 A LRA: 29.0 A	32	2397	3154	4024	5010	6112	7330	8661	Total Unit Amps: 8.32 Fan Motor: Qty 1 Diameter: 450mm Voltage: 230v/1/50Hz Total Fan Amps: 0.65 Receiver: 5.2 Litres Unit Weight: 90.0kg Dimension Diagram: DFB02
		38	2038	2722	3510	4405	5407	6518	7735	
		43	1750	2373	3091	3908	4826	-	-	
		46	1582	2168	2844	3614	4481	-	-	
OPMCRN060MTA14E (Three Phase) Danfoss Unit Code: 114X5794 Unit Connections Liquid Line: 1/2" Suction Line: 5/8"	MTZ036-4VI Maneurop Recip Comp 175PZ oil (0.95L) Nom HP: 2-1/8 400v/3/50Hz MCC: 9.0 A LRA: 38.0 A	32	3238	4146	5174	6317	7570	8926	10376	Total Unit Amps: 10.2 Fan Motor: Qty 1 Diameter: 500mm Voltage: 230v/1/50Hz Total Fan Amps: 0.97 Receiver: 5.2 Litres Unit Weight: 90.0kg Dimension Diagram: DFB03
		38	2817	3634	4555	5579	6702	7919	9222	
		43	2465	3205	4037	4961	5975	-	-	
		46	2254	2947	3725	4589	5537	-	-	
OPMCRN096MTA14E (Three Phase) Danfoss Unit Code: 114X5796 Unit Connections Liquid Line: 1/2" Suction Line: 7/8"	MTZ056-4VI Maneurop Recip Comp 175PZ oil (1.8L) Nom HP: 3.0 400v/3/50Hz MCC: 13.5 A LRA: 64.0 A	32	4680	6125	7809	9738	11912	14326	16972	Total Unit Amps: 13.7 Fan Motor: Qty 1 Diameter: 500mm Voltage: 230v/1/50Hz Total Fan Amps: 0.97 Receiver: 7.3 Litres Unit Weight: 140.0kg Dimension Diagram: DFB04
		38	4037	5332	6845	8583	10550	12743	15156	
		43	3526	4696	6065	7644	9436	-	-	
		46	3228	4323	5606	7089	8776	-	-	
OPMCRN108MTA14E (Three Phase) Danfoss Unit Code: 114X5797 Unit Connections Liquid Line: 1/2" Suction Line: 7/8"	MTZ064-4VI Maneurop Recip Comp 175PZ oil (1.8L) Nom HP: 3-5/8 400v/3/50Hz MCC: 13.5 A LRA: 64.0 A	32	5537	7154	9033	11178	13588	16254	19166	Total Unit Amps: 14.7 Fan Motor: Qty 1 Diameter: 500mm Voltage: 230v/1/50Hz Total Fan Amps: 0.97 Receiver: 7.3 Litres Unit Weight: 160.0kg Dimension Diagram: DFB04
		38	4780	6233	7923	9856	12035	14456	17108	
		43	4159	5472	7002	8757	10742	-	-	
		46	3791	5019	6451	8098	9966	-	-	

Note: Each unit is factory fitted with a PTC 75watt crankcase heater

Danfoss Optyma Blue Flat Base Units

R449A / R448A – Medium Temperature Condensing Units

Airefrig Part Number	Compressor Model	Amb Temp °C	Refrigeration Capacity Watts Based on EN13215: 10k Superheat & 0K sub-cooling							Condensing Unit Information
			Evaporating Temperature °C							
			-20	-15	-10	-5	0	+5	+10	
OPMCRN038MTA14G (CSR Single Phase) Danfoss Unit Code: 114X5789 Unit Connections Liquid Line: 3/8" Suction Line: 1/2"	MTZ022-5VI Maneurop Recip Comp 175PZ oil (0.95L) Nom HP: 1-1/8 230v/1/50Hz MCC: 15.0 A LRA: 41.0 A	32	1565	2162	2832	3573	4377	5238	6148	Total Unit Amps: 15.4 Fan Motor: Qty 1 Diameter: 350mm Voltage: 230v/1/50Hz Total Fan Amps: 0.35 Receiver: 3.0 Litres Unit Weight: 65.0kg Dimension Diagram: DFB01
		38	1309	1862	2481	3163	3905	4699	5539	
		43	1092	1608	2184	2819	3509	-	-	
		46	961	1455	2006	2612	3271	-	-	
OPMCRN048MTA14E (Three Phase) Danfoss Unit Code: 114X5792 Unit Connections Liquid Line: 1/2" Suction Line: 1/2"	MTZ028-4VI Maneurop Recip Comp 175PZ oil (0.95L) Nom HP: 1-1/2 400v/3/50Hz MCC: 7.5 A LRA: 29.0 A	32	2177	2812	3574	4471	5506	6680	7992	Total Unit Amps: 8.32 Fan Motor: Qty 1 Diameter: 450mm Voltage: 230v/1/50Hz Total Fan Amps: 0.65 Receiver: 5.2 Litres Unit Weight: 90.0kg Dimension Diagram: DFB02
		38	1950	2522	3208	4016	4953	6022	7221	
		43	1764	2286	2910	3647	4504	5485	-	
		46	1653	2146	2735	3429	4239	-	-	
OPMCRN060MTA14E (Three Phase) Danfoss Unit Code: 114X5794 Unit Connections Liquid Line: 1/2" Suction Line: 5/8"	MTZ036-4VI Maneurop Recip Comp 175PZ oil (0.95L) Nom HP: 2-1/8 400v/3/50Hz MCC: 9.0 A LRA: 38.0 A	32	2774	3609	4575	5671	6893	8235	9687	Total Unit Amps: 10.2 Fan Motor: Qty 1 Diameter: 500mm Voltage: 230v/1/50Hz Total Fan Amps: 0.97 Receiver: 5.2 Litres Unit Weight: 90.0kg Dimension Diagram: DFB03
		38	2475	3234	4113	5111	6226	7453	8785	
		43	2227	2923	3729	4645	5670	-	-	
		46	2080	2738	3499	4365	5337	-	-	
OPMCRN096MTA14E (Three Phase) Danfoss Unit Code: 114X5796 Unit Connections Liquid Line: 1/2" Suction Line: 7/8"	MTZ056-4VI Maneurop Recip Comp 175PZ oil (1.8L) Nom HP: 3.0 400v/3/50Hz MCC: 13.5 A LRA: 64.0 A	32	4012	5350	6916	8712	10736	12979	15429	Total Unit Amps: 13.7 Fan Motor: Qty 1 Diameter: 500mm Voltage: 230v/1/50Hz Total Fan Amps: 0.97 Receiver: 7.3 Litres Unit Weight: 140.0kg Dimension Diagram: DFB04
		38	3534	4758	6187	7827	9678	11734	13986	
		43	3127	4257	5573	7084	8791	-	-	
		46	2880	3953	5202	6635	8257	-	-	
OPMCRN108MTA14E (Three Phase) Danfoss Unit Code: 114X5797 Unit Connections Liquid Line: 1/2" Suction Line: 7/8"	MTZ064-4VI Maneurop Recip Comp 175PZ oil (1.8L) Nom HP: 3-5/8 400v/3/50Hz MCC: 13.5 A LRA: 64.0 A	32	4679	6147	7834	9737	11850	14162	16659	Total Unit Amps: 14.7 Fan Motor: Qty 1 Diameter: 500mm Voltage: 230v/1/50Hz Total Fan Amps: 0.97 Receiver: 7.3 Litres Unit Weight: 160.0kg Dimension Diagram: DFB04
		38	4084	5425	6970	8716	10660	12793	15101	
		43	3605	4839	6263	7877	9678	-	-	
		46	3326	4494	5845	7379	9094	-	-	

Note: Each unit is factory fitted with a PTC 75watt crankcase heater

Danfoss Optyma Blue Flat Base Units

R452A – Medium Temperature Condensing Units

Airefrig Part Number	Compressor Model	Amb Temp °C	Refrigeration Capacity Watts Based on EN13215: 10k Superheat & 0K sub-cooling							Condensing Unit Information
			Evaporating Temperature °C							
			-25	-20	-15	-10	-5	0	+5	
OPMCRN038MTA14G (CSR Single Phase) Danfoss Unit Code: 114X5789 Unit Connections Liquid Line: 3/8" Suction Line: 1/2"	MTZ022-5VI Maneurop Recip Comp 175PZ oil (0.95L) Nom HP: 1-1/8 230v/1/50Hz MCC: 15.0 A LRA: 41.0 A	32	1104	1591	2150	2781	3480	4242	5063	Total Unit Amps: 15.4 Fan Motor: Qty 1 Diameter: 350mm Voltage: 230v/1/50Hz Total Fan Amps: 0.35 Receiver: 3.0 Litres Unit Weight: 65.0kg Dimension Diagram: DFB01
		38	892	1339	1848	2422	3056	3749	4495	
		43	715	1126	1594	2118	2698	3332	-	
		46	610	1000	1441	1936	2483	3081	-	
OPMCRN048MTA14E (Three Phase) Danfoss Unit Code: 114X5792 Unit Connections Liquid Line: 1/2" Suction Line: 1/2"	MTZ028-4VI Maneurop Recip Comp 175PZ oil (0.95L) Nom HP: 1-1/2 400v/3/50Hz MCC: 7.5 A LRA: 29.0 A	32	1891	2377	2978	3706	4574	5587	6750	Total Unit Amps: 8.32 Fan Motor: Qty 1 Diameter: 450mm Voltage: 230v/1/50Hz Total Fan Amps: 0.65 Receiver: 5.2 Litres Unit Weight: 90.0kg Dimension Diagram: DFB02
		38	1683	2117	2650	3297	4071	4980	6027	
		43	1504	1892	2368	2947	3641	4462	-	
		46	1396	1755	2195	2732	3379	4146	-	
OPMCRN060MTA14E (Three Phase) Danfoss Unit Code: 114X5794 Unit Connections Liquid Line: 1/2" Suction Line: 5/8"	MTZ036-4VI Maneurop Recip Comp 175PZ oil (0.95L) Nom HP: 2-1/8 400v/3/50Hz MCC: 9.0 A LRA: 38.0 A	32	2355	3008	3785	4692	5734	6911	8218	Total Unit Amps: 10.2 Fan Motor: Qty 1 Diameter: 500mm Voltage: 230v/1/50Hz Total Fan Amps: 0.97 Receiver: 5.2 Litres Unit Weight: 90.0kg Dimension Diagram: DFB03
		38	2076	2666	3364	4178	5113	6170	7348	
		43	1835	2368	2996	3730	4573	5530	-	
		46	1687	2184	2770	3453	4242	5138	-	
OPMCRN096MTA14E (Three Phase) Danfoss Unit Code: 114X5796 Unit Connections Liquid Line: 1/2" Suction Line: 7/8"	MTZ056-4VI Maneurop Recip Comp 175PZ oil (1.8L) Nom HP: 3.0 400v/3/50Hz MCC: 13.5 A LRA: 64.0 A	32	3351	4535	5930	7544	9377	11424	13675	Total Unit Amps: 13.7 Fan Motor: Qty 1 Diameter: 500mm Voltage: 230v/1/50Hz Total Fan Amps: 0.97 Receiver: 7.3 Litres Unit Weight: 140.0kg Dimension Diagram: DFB04
		38	2891	3971	5237	6697	8355	10208	12250	
		43	2495	3484	4638	5967	7476	9165	-	
		46	2254	3186	4271	5519	6938	8528	-	
OPMCRN108MTA14E (Three Phase) Danfoss Unit Code: 114X5797 Unit Connections Liquid Line: 1/2" Suction Line: 7/8"	MTZ064-4VI Maneurop Recip Comp 175PZ oil (1.8L) Nom HP: 3-5/8 400v/3/50Hz MCC: 13.5 A LRA: 64.0 A	32	3988	5295	6809	8533	10466	12601	14926	Total Unit Amps: 14.7 Fan Motor: Qty 1 Diameter: 500mm Voltage: 230v/1/50Hz Total Fan Amps: 0.97 Receiver: 7.3 Litres Unit Weight: 160.0kg Dimension Diagram: DFB04
		38	3415	4603	5975	7537	9289	11227	13343	
		43	2946	4029	5279	6701	8298	10069	-	
		46	2669	3687	4861	6197	7700	9369	-	

Note: Each unit is factory fitted with a PTC 75watt crankcase heater

Danfoss Optyma Blue Flat Base Units

R404A (R507) – Low Temperature Condensing Units

Airefrig Part Number	Compressor Model	Amb Temp °C	Refrigeration Capacity Watts							Condensing Unit Information
			Based on EN13215: 10k Superheat & 0K sub-cooling							
			Evaporating Temperature °C							
			-40	-35	-30	-25	-20	-15	-10	
OPLCQN068NTA14G (CSR Single Phase) Danfoss Unit Code: 114X5783 Unit Connections Liquid Line: 1/2" Suction Line: 5/8"	NTZ068A5LR1B Maneurop Recip Comp 175PZ oil (0.95L) Nom HP: 1-1/2 230v/1/50Hz MCC: 17.0 A LRA: 53.0 A	32	1139	1527	1980	2494	3060	3668	4307	Total Unit Amps: 17.8 Fan Motor: Qty 1 Diameter: 450mm Voltage: 230v/1/50Hz Total Fan Amps: 0.65 Receiver: 5.2 Litres Unit Weight: 84.0kg Dimension Diagram: DFB02
		38	971	1314	1711	2157	2649	3176	3731	
		43	-	1136	1486	1879	2309	2769	-	
		46	-	1029	1352	1712	2105	2525	-	
OPLGQN096NTA14E (Three Phase) Danfoss Unit Code: 114X5785 Unit Connections Liquid Line: 1/2" Suction Line: 7/8"	NTZ096A4LR1B Maneurop Recip Comp 175PZ oil (1.8L) Nom HP: 1-5/8 400v/3/50Hz MCC: 10.1 A LRA: 32.0 A	32	1458	2073	2850	3809	4964	6330	7918	Total Unit Amps: 10.9 Fan Motor: Qty 2 Diameter: 350mm Voltage: 230v/1/50Hz Total Fan Amps: 0.7 Receiver: 7.3 Litres Unit Weight: 134.0kg Dimension Diagram: DFB05
		38	1171	1717	2411	3270	4312	5552	7001	
		43	-	1419	2039	2812	3757	4888	-	
		46	-	1243	1817	2537	3421	4485	-	
OPLCQN136NTA14E (Three Phase) Danfoss Unit Code: 114X5787 Unit Connections Liquid Line: 1/2" Suction Line: 7/8"	NTZ136A4LR1B Maneurop Recip Comp 175PZ oil (1.8L) Nom HP: 2-7/8 400v/3/50Hz MCC: 14.3 A LRA: 51.0 A	32	2239	3106	4149	5379	6803	8425	10245	Total Unit Amps: 15.5 Fan Motor: Qty 1 Diameter: 500mm Voltage: 230v/1/50Hz Total Fan Amps: 0.97 Receiver: 7.3 Litres Unit Weight: 125.0kg Dimension Diagram: DFB04
		38	1845	2620	3553	4654	5931	7389	9032	
		43	-	2224	3062	4053	5205	6526	-	
		46	-	1990	2771	3695	4771	6008	-	
OPLGQN215NTA14E (Three Phase) Danfoss Unit Code: 114X5788 Unit Connections Liquid Line: 5/8" Suction Line: 1-1/8"	NTZ215A4LR1B Maneurop Recip Comp 175PZ oil (3.9L) Nom HP: 4.0 400v/3/50Hz MCC: 22.3 A LRA: 74.0 A	32	3487	4904	6579	8533	10783	13342	16221	Total Unit Amps: 26.8 Fan Motor: Qty 2 Diameter: 560mm Voltage: 230v/1/50Hz Total Fan Amps: 3.56 Receiver: 14.0 Litres Unit Weight: 208.0kg Dimension Diagram: DFB06
		38	3253	4075	5598	7373	9418	11747	14373	
		43	2200	3375	4760	6375	8239	10367	-	
		46	-	2957	4254	5768	7519	9522	-	

Note: Each unit is factory fitted with a PTC 75watt crankcase heater

Danfoss Optyma Blue Flat Base Units

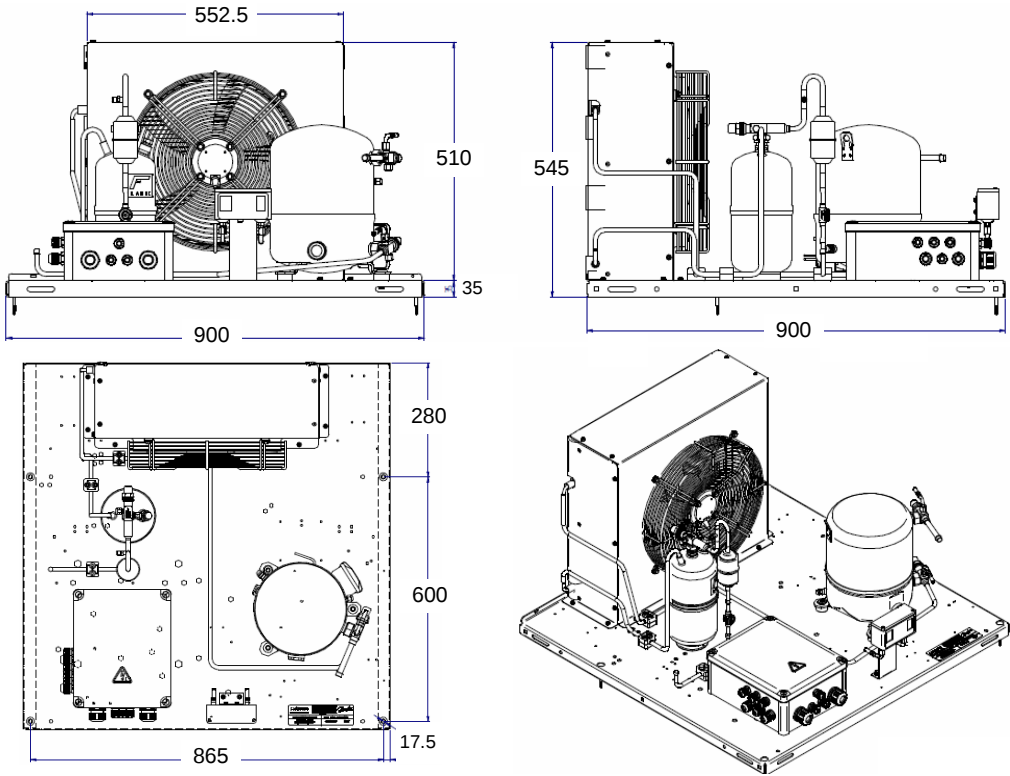
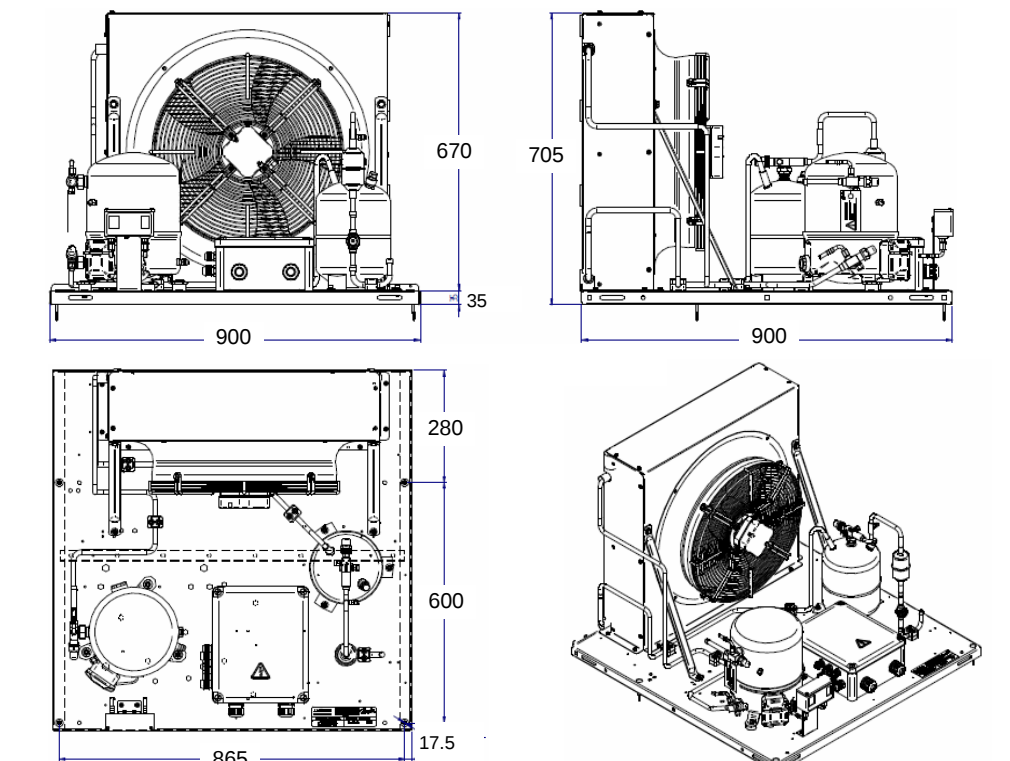
R452A – Low Temperature Condensing Units

Airefrig Part Number	Compressor Model	Amb Temp °C	Refrigeration Capacity Watts Based on EN13215: 10k Superheat & 0K sub-cooling						Condensing Unit Information
			Evaporating Temperature °C						
			-35	-30	-25	-20	-15	-10	
OPLCQN068NTA14G (CSR Single Phase) Danfoss Unit Code: 114X5783 Unit Connections Liquid Line: 1/2" Suction Line: 5/8"	NTZ068A5LR1B Maneurop Recip Comp 175PZ oil (0.95L) Nom HP: 1-1/2 230v/1/50Hz MCC: 17.0 A LRA: 53.0 A	32	1467	1924	2433	2988	3583	4209	Total Unit Amps: 17.8 Fan Motor: Qty 1 Diameter: 450mm Voltage: 230v/1/50Hz Total Fan Amps: 0.65 Receiver: 5.2 Litres Unit Weight: 84.0kg Dimension Diagram: DFB02
		38	1209	1622	2081	2581	3116	3678	
		43	-	1378	1794	2247	2731	-	
		46	-	-	-	-	-	-	
OPLGQN096NTA14E (Three Phase) Danfoss Unit Code: 114X5785 Unit Connections Liquid Line: 1/2" Suction Line: 7/8"	NTZ096A4LR1B Maneurop Recip Comp 175PZ oil (1.8L) Nom HP: 1-5/8 400v/3/50Hz MCC: 10.1 A LRA: 32.0 A	32	2141	2938	3908	5061	6404	7942	Total Unit Amps: 10.9 Fan Motor: Qty 2 Diameter: 350mm Voltage: 230v/1/50Hz Total Fan Amps: 0.7 Receiver: 7.3 Litres Unit Weight: 134.0kg Dimension Diagram: DFB05
		38	1803	2509	3376	4413	5628	7029	
		43	-	2158	2936	3873	4981	-	
		46	-	-	-	-	-	-	
OPLCQN136NTA14E (Three Phase) Danfoss Unit Code: 114X5787 Unit Connections Liquid Line: 1/2" Suction Line: 7/8"	NTZ136A4LR1B Maneurop Recip Comp 175PZ oil (1.8L) Nom HP: 2-7/8 400v/3/50Hz MCC: 14.3 A LRA: 51.0 A	32	3243	4298	5548	6997	8640	10472	Total Unit Amps: 15.5 Fan Motor: Qty 1 Diameter: 500mm Voltage: 230v/1/50Hz Total Fan Amps: 0.97 Receiver: 7.3 Litres Unit Weight: 125.0kg Dimension Diagram: DFB04
		38	2779	3703	4804	6086	7550	9913	
		43	-	3234	4211	5355	6669	-	
		46	-	-	-	-	-	-	
OPLGQN215NTA14E (Three Phase) Danfoss Unit Code: 114X5788 Unit Connections Liquid Line: 5/8" Suction Line: 1-1/8"	NTZ215A4LR1B Maneurop Recip Comp 175PZ oil (3.9L) Nom HP: 4.0 400v/3/50Hz MCC: 22.3 A LRA: 74.0 A	32	4725	6349	8266	10491	13032	15895	Total Unit Amps: 26.8 Fan Motor: Qty 2 Diameter: 560mm Voltage: 230v/1/50Hz Total Fan Amps: 3.56 Receiver: 14.0 Litres Unit Weight: 208.0kg Dimension Diagram: DFB06
		38	4001	5456	7176	9179	11476	14077	
		43	-	4730	6281	8094	10183	-	
		46	-	-	-	-	-	-	

Note: Each unit is factory fitted with a PTC 75watt crankcase heater

Danfoss Optyma Blue Flat Base Units

Condensing Unit Dimensions

Unit Models	Drawing Diagram: DFB01
<u>Medium Temperature</u> OPMCRN038MTA14G (114X5789)	
Unit Models	Drawing Diagram: DFB02
<u>Medium Temperature</u> OPMCRN048MTA14E (114X5792) <u>Low Temperature</u> OPLCQN068NTA14G (114X5783)	

Danfoss Optyma Blue Flat Base Units

Condensing Unit Dimensions (cont'd)

Unit Models	Drawing Diagram: DFB03
Medium Temperature OPMCRN060MTA14E (114X5794)	Front View Dimensions: 681 (width), 670 (height), 900 (base width), 35 (base height). Side View Dimensions: 705 (height), 900 (base width). Top View Dimensions: 865 (width), 600 (height), 17.5 (base height), 280 (internal height). Isometric View: Shows the unit from a 3D perspective.
Medium Temperature OPMCRN096MTA14E (114X5796) OPMCRN108MTA14E (114X5797) Low Temperature OPLCQN136NTA14E (114X5787)	Front View Dimensions: 912.5 (width), 801.5 (height), 1200 (base width), 35 (base height). Side View Dimensions: 836.5 (height), 800 (base width). Top View Dimensions: 1165 (width), 500 (height), 17.5 (base height), 282.5 (internal height). Isometric View: Shows the unit from a 3D perspective.

Danfoss Optyma Blue Flat Base Units

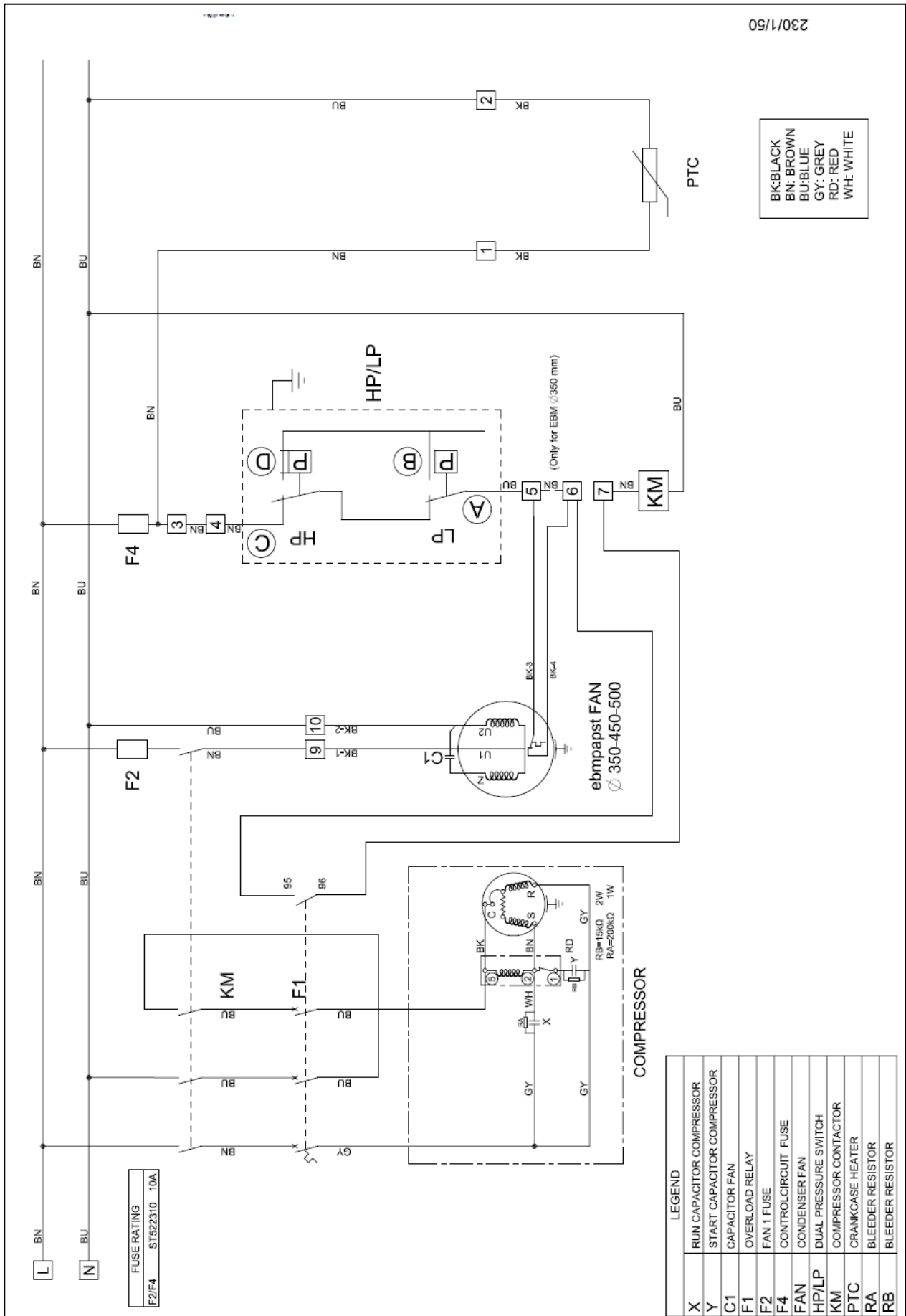
Condensing Unit Dimensions (cont'd)

Unit Models	Drawing Diagram: DFB05
Low Temperature OPLGQN096NTA14E (114X5785)	Technical drawing of the Danfoss Optyma Blue Flat Base Unit DFB05. The drawing includes three views: a front view, a side view, and an isometric view. The front view shows a unit with two large fans and a central compressor. Dimensions include a total width of 1224.2, a base width of 1500, a height of 658.5, and a depth of 35. The side view shows a height of 693.5 and a base width of 870. The isometric view shows a height of 267.5, a base width of 1465, and a depth of 17.5. The unit is labeled as a Low Temperature model.

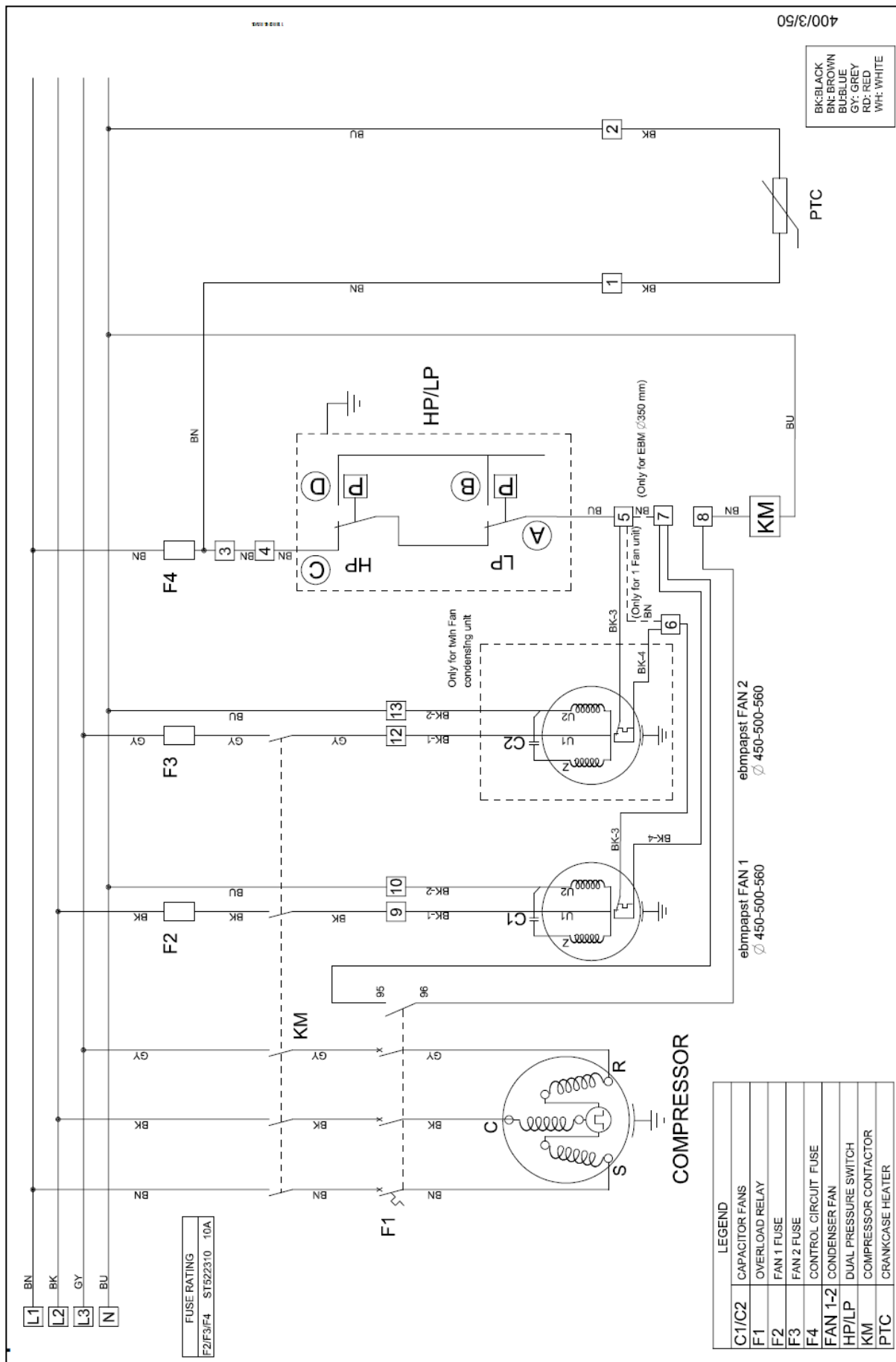
Unit Models	Drawing Diagram: DFB06
Low Temperature OPLGQN215NTA14E (114X5788)	Technical drawing of the Danfoss Optyma Blue Flat Base Unit DFB06. The drawing includes three views: a front view, a side view, and an isometric view. The front view shows a unit with two large fans and a central compressor. Dimensions include a total width of 1445.5, a base width of 1500, a height of 801.5, and a depth of 35. The side view shows a height of 836.5 and a base width of 870. The isometric view shows a height of 267.5, a base width of 1465, and a depth of 17.5. The unit is labeled as a Low Temperature model.

Danfoss Optyma Blue Flat Base Units

Unit Wiring Diagrams – Single Phase Units



Unit Wiring Diagrams – Three Phase Units



Danfoss Optyma Blue Flat Base Units

Shipping Dimensions & Weights

Medium Temperature Units				
Unit Models	Shipping Packaged Dimensions (mm)			Shipping Weight (Kg)
	Width	Depth	Height	
OPMCRN038MTA14G (114X5789)	960	960	924	75.0
OPMCRN048MTA14E (114X5792)	960	960	924	105.0
OPMCRN060MTA14E (114X5794)	960	960	924	105.0
OPMCRN096MTA14E (114X5796)	860	1265	1089	160.0
OPMCRN108MTA14E (114X5797)	860	1265	1089	180.0

Low Temperature Units				
Unit Models	Shipping Packaged Dimensions (mm)			Shipping Weight (Kg)
	Depth	Width	Height	
OPLCQN068NTA14G (114X5783)	960	960	924	98.0
OPLGQN096NTA14E (114X5785)	930	1565	1209	158.0
OPLCQN136NTA14E (114X5787)	860	1265	1089	145.0
OPLGQN215NTA14E (114X5788)	930	1565	1209	230.0



Danfoss Optyma Blue Flat Base Units

Medium Temperature Units - Spare Parts

Part Description	Unit Model		
	OPMCRN038MTA14G (114X5789)	OPMCRN048MTA14E (114X5792)	OPMCRN060MTA14E (114X5794)
Compressor	MTZ22-5VI (MTZ22JC5VE)	MTZ28-4VI (MTZ28JE4AVE)	MTZ36-4VI (MTZ36JG4BVE)
Comp Suction Service Valve	7968013 (1" rotalock x 1/2" ODF)	7968013 (1" rotalock x 1/2" ODF)	7968014 (1-1/4" rotalock x 5/8" ODF)
Comp Suction Service Valve	7968012 (1" rotalock x 3/8" ODF)	7968013 (1" rotalock x 1/2" ODF)	7968013 (1" rotalock x 1/2" ODF)
ebm Fan Motor Assembly	118U0390 Qty:1 (Ø350mm 230/1/50Hz motor capacitor: 2uF 400v	118U0391 Qty:1 (Ø450mm 230/1/50Hz) motor capacitor: 5uF 400v	118U0392 Qty:1 (Ø500mm 230/1/50Hz) motor capacitor: 5uF 400v
PTC Crankcase Heater (insertion type)	120Z0459 (27watt / 230-600v)	120Z0459 (27watt / 230-600v)	120Z0459 (27watt / 230-600v)
Liquid Receiver	8168179 (3.0 Litres)	8168180 (5.2 Litres)	8168180 (5.2 Litres)
Receiver Shut Off Valve	7968012 (1" rotalock x 3/8" ODF)	7968013 (1" rotalock x 1/2" ODF)	7968013 (1" rotalock x 1/2" ODF)
Unit Contactor	118U5261 (3RT2026-1AL20 25A)	118U5264 (3RT2016-1AP01 9A)	118U5262 (3RT2024-1AL20 12A)
Unit Overload Relay	118U5265 (3RU2126-4BB0 13-20A)	118U5270 (3RU2116-1HB0 5.5-8A)	118U5266 (3RU2126-1JB0 7-10A)
Comp Start Relay CSR only	8173022 (RVA-6AMKL/3ARR3J4A4)	N/A	N/A
Comp Start Cap CSR only	8173001 (330V / 98 µF)	N/A	N/A
Comp Run Cap CSR only	8173041 (440V / 20 µF)	N/A	N/A
Liquid Line Filter Drier	023Z5058 (DML083S)	023Z5061 (DML084S)	023Z8067 (DML164S)
Liquid Line Sight Glass	SGP10S 014L0182	SGP12S 014L0183	SGP12S 014L0183
HP/LP Control	060-539766 (KP17WB)	060-539766 (KP17WB)	060-539766 (KP17WB)
Condenser Coil	118U5217 (MCHX condenser A7)	118U5218 (MCHX condenser D7)	118U5218 (MCHX condenser D7)

Danfoss Optyma Blue Flat Base Units

Medium Temperature Units - Spare Parts (cont'd)

Part Description	Unit Model	
	OPMCRN096MTA14E (114X5796)	OPMCRN108MTA14E (114X5797)
Compressor	MTZ56-4VI (MTZ56HL4BVE)	MTZ64-4VI (MTZ64HM4CVE)
Comp Suction Service Valve	7968017 (1-3/4" rotalock x 7/8" ODF)	7968017 (1-3/4" rotalock x 7/8" ODF)
Comp Discharge Service Valve	7968013 (1" rotalock x 1/2" ODF)	7968013 (1" rotalock x 1/2" ODF)
ebm Fan Motor Assembly	118U0392 Qty:1 (Ø500mm 230/1/50Hz) motor capacitor: 5uF 400v	118U0392 Qty:1 (Ø500mm 230/1/50Hz) motor capacitor: 5uF 400v
PTC Crankcase Heater (insertion type)	120Z0459 (27watt / 230-600v)	120Z0459 (27watt / 230-600v)
Liquid Receiver	8168181 (7.3 Litres)	8168181 (7.3 Litres)
Receiver Shut Off Valve	7968014 (1-1/4" rotalock x 5/8" ODF)	7968014 (1-1/4" rotalock x 5/8" ODF)
Unit Contactor	118U5263 (3RT2025-1AL20 16A)	118U5263 (3RT2025-1AL20 16A)
Unit Overload Relay	118U5268 (3RU2126-4AB0 11-16A)	118U5268 (3RU2126-4AB0 11-16A)
Comp Start Relay CSR only	N/A	N/A
Comp Start Cap CSR only	N/A	N/A
Comp Run Cap CSR only	N/A	N/A
Liquid Line Filter Drier	023Z8067 (DML164S)	023Z8067 (DML164S)
Liquid Line Sight Glass	014L0183 (SGP12S)	014L0183 (SGP12S)
HP/LP Control	060-539766 (KP17WB)	060-539766 (KP17WB)
Condenser Coil	118U5219 (MCHX condenser G7)	118U5219 (MCHX condenser G7)

Danfoss Optyma Blue Flat Base Units

Low Temperature Units - Spare Parts

Part Description	Unit Model			
	OPLCQN068NTA14G (114X5783)	OPLGQN096NTA14E (114X5785)	OPLCQN136NTA14E (114X5787)	OPLGQN215NTA14E (114X5788)
Compressor	120F0232 (NTZ068A5LR1B)	120F0234 (NTZ096A4LR1B)	120F0236 (NTZ136A4LR1B)	120F0240 (NTZ215A4LR1B)
Comp Suction Service Valve	7968014 (1-1/4" rotalock x 5/8" ODF)	7968016 (1-1/4" rotalock x 7/8" ODF)	7968016 (1-1/4" rotalock x 7/8" ODF)	7968018 (1-3/4" rotalock x 1-1/8" ODF)
Comp Discharge Service Valve	7968013 (1" rotalock x 1/2" ODF)	7968013 (1" rotalock x 1/2" ODF)	7968013 (1" rotalock x 1/2" ODF)	7968014 (1-1/4" rotalock x 5/8" ODF)
ebm Fan Motor Assembly	118U0391 Qty:1 (Ø450mm 230/1/50Hz) motor capacitor: 5uF 400v	118U0390 Qty:2 (Ø350mm 230/1/50Hz) motor capacitor: 2uF 400v	118U0392 Qty:1 (Ø500mm 230/1/50Hz) motor capacitor: 5uF 400v	118U0393 Qty:2 (Ø560mm 230/1/50Hz) motor capacitor: 10uF 400v
PTC Crankcase Heater (insertion type)	120Z0459 (27watt / 230-600v)	120Z0459 (27watt / 230-600v)	120Z0459 (27watt / 230-600v)	120Z0459 (27watt / 230-600v)
Liquid Receiver	8168180 (5.2 Litres)	8168181 (7.3 Litres)	8168181 (7.3 Litres)	8168183 (14.0 Litres)
Receiver Shut Off Valve	7968013 (1" rotalock x 1/2" ODF)	7968014 (1-1/4" rotalock x 5/8" ODF)	7968014 (1-1/4" rotalock x 5/8" ODF)	7968015 (1-1/4" rotalock x 3/4" ODF)
Unit Contactor	118U5261 (3RT2026-1AL20 25A)	118U5263 (3RT2025-1AL20 16A)	118U5263 (3RT2025-1AL20 16A)	118U5261 (3RT2026-1AL20 25A)
Unit Overload Relay	118U5265 (3RU2126-4BB0 13-20A)	118U5267 (3RU2126-1KB0 9-12.5A)	118U5268 (3RU2126-4AB0 11-16A)	118U5269 (3RU2126-4DB0 20-25A)
Comp Start Relay CSR only	8173022 (RVA-6AMKL/3ARR3J4A4)	N/A	N/A	N/A
Comp Start Cap CSR only	8173001 (330V / 98 µF)	N/A	N/A	N/A
Comp Run Cap CSR only	8173041 (440V / 20 µF)	N/A	N/A	N/A
Liquid Line Filter Drier	023Z5061 (DML084S)	023Z5061 (DML084S)	023Z5061 (DML084S)	023Z8067 (DML164S)
Liquid Line Sight Glass	014L0183 (SGP12S)	014L0183 (SGP12S)	014L0183 (SGP12S)	014L0183 (SGP12S)
HP/LP Control	060-539766 (KP17WB)	060-539766 (KP17WB)	060-539766 (KP17WB)	060-539766 (KP17WB)
Condenser Coil	118U5218 (MCHX condenser D7)	118U1004 (Condenser MCHX N8)	118U5219 (MCHX condenser G7)	118U5220 (MCHX condenser J7)