



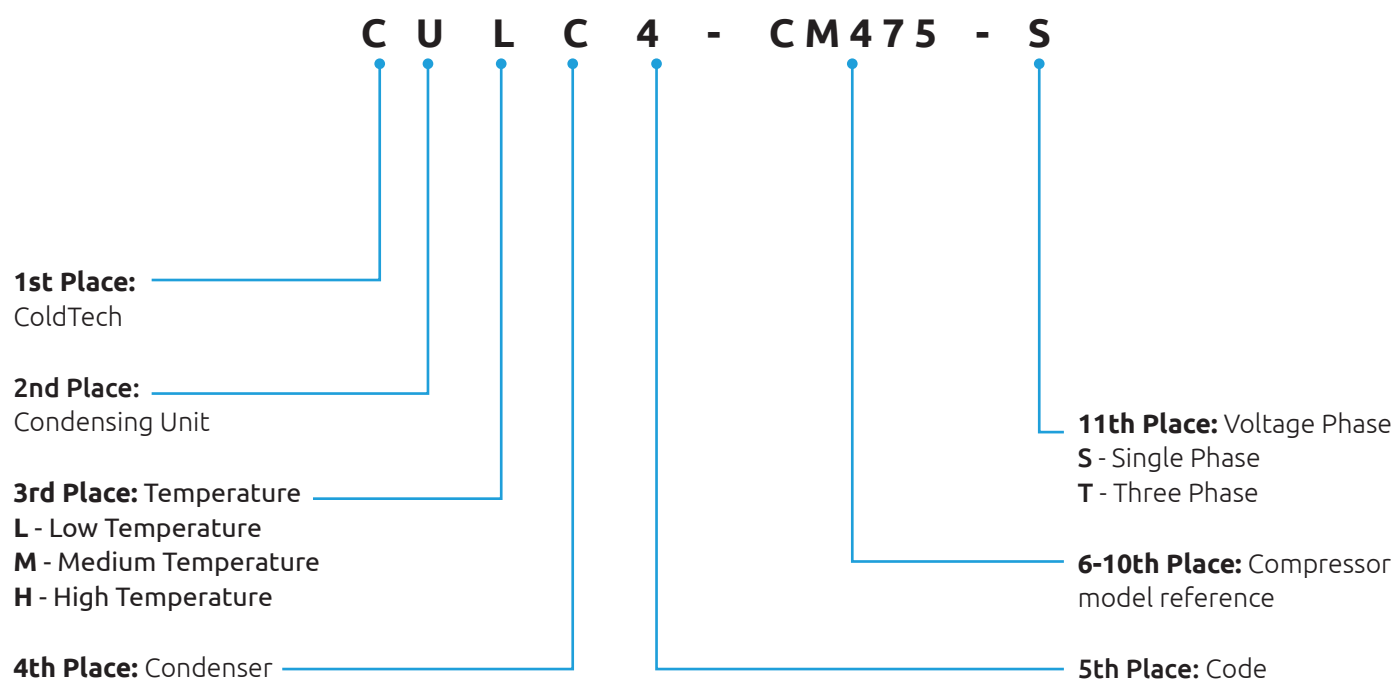
Reliability You Trust

CONDENSING UNITS

Key features

- ❖ Compact design
- ❖ High efficiency Copeland™ compressors
- ❖ Energy efficient silent fans
- ❖ Condenser coils designed for high ambient
- ❖ Liquid receiver as standard feature
- ❖ Optimal layout of components for easy serviceability

NOMENCLATURE



Scope of supply

- ❖ HP/LP Switch
- ❖ Crankcase heater

Performance Data

Medium Temperature

R407c

Condensing unit model Number of fans	Condensing Temperature (°C)	Capacity (kW)										Total power input (kW)									
		Evaporating temperature (°C)																			
		-23.3	-17.8	12.2	-6.7	-1.1	4.4	7.3	10.0	12.8	-23.3	-17.8	12.2	-6.7	-1.1	4.4	7.3	10.0	12.8		
CUMC4-CJ513-S	60	-	-	1.3	1.6	2.1	2.9	3.4	3.9	4.5	-	-	1.1	1.2	1.3	1.4	1.4	1.5	1.6		
	54.4	-	1.3	1.4	1.8	2.3	3.2	3.6	4.2	4.8	-	1.0	1.1	1.2	1.3	1.4	1.4	1.5	1.5		
	48.9	-	1.4	1.6	2.0	2.6	3.4	3.9	4.6	5.3	-	1.0	1.1	1.1	1.2	1.3	1.4	1.4	1.5		
	43.3	-	1.5	1.8	2.2	2.9	3.7	4.3	5.0	5.7	-	1.0	1.0	1.1	1.2	1.3	1.3	1.4	1.4		
	37.8	-	1.7	2.0	2.4	3.1	4.0	4.6	5.2	5.9	-	1.0	1.0	1.1	1.1	1.2	1.3	1.3	1.4		
CUMC6-CR21-T	60	-	-	-	2.1	2.9	3.9	4.5	5.1	5.8	-	-	-	1.3	1.5	1.6	1.7	1.8	1.8		
	54.4	-	-	1.6	2.4	3.3	4.4	5.1	5.7	6.5	-	-	1.1	1.3	1.4	1.6	1.6	1.6	1.7		
	48.9	-	-	1.9	2.8	3.8	5.0	5.6	6.4	7.3	-	-	1.1	1.2	1.4	1.5	1.5	1.5	1.5		
	43.3	-	1.4	2.3	3.5	4.2	5.5	6.3	7.1	8.0	-	-	1.1	1.2	1.3	1.4	1.4	1.4	1.4		
	37.8	0.9	1.8	2.8	3.6	4.7	6.1	6.9	7.7	8.8	0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.4	1.4		
CUMC6-CR22-S	60	-	-	-	1.7	2.6	3.6	4.3	5.0	5.7	-	-	-	1.3	15.0	1.7	1.8	1.9	1.9		
	54.4	-	-	1.3	2.1	3.0	4.2	4.9	5.7	6.6	-	-	1.2	1.3	1.5	1.6	1.7	1.8	1.8		
	48.9	-	-	1.6	2.4	3.4	4.7	5.5	6.4	7.4	-	-	1.2	1.3	1.4	1.6	1.6	1.7	1.7		
	43.3	-	1.1	1.8	2.7	3.8	5.2	6.0	7.0	8.2	-	1.0	1.1	1.3	1.4	1.5	1.5	1.7	1.6		
	37.8	0.6	1.4	2.1	3.0	4.1	5.7	6.6	7.7	9.0	0.8	0.9	1.1	1.2	1.3	1.4	1.4	1.4	1.4		
CUMC10-CR29-T	60	-	-	-	2.3	3.5	5.0	5.9	6.9	8.1	-	-	-	1.7	2.0	2.2	2.4	2.5	2.6		
	54.4	-	-	1.8	2.9	4.2	5.8	6.9	8.0	9.3	-	-	1.4	1.6	1.9	2.1	2.3	2.3	2.4		
	48.9	-	-	2.2	0.5	0.5	0.6	0.6	0.6	0.7	-	-	1.3	1.6	1.8	2.0	2.1	2.2	2.2		
	43.3	-	1.6	2.6	3.9	5.4	7.4	8.6	9.9	11.5	-	1.1	1.3	1.5	1.7	1.9	1.9	2.0	2.0		
	37.8	0.8	1.9	3.0	4.2	5.9	8.0	9.4	10.9	12.6	1.0	1.2	1.3	1.5	1.6	1.7	1.8	1.8	1.8		
CUMC10-CR30-S	60	-	-	-	2.3	3.6	5.1	5.9	7.0	8.1	-	-	-	1.8	2.1	2.3	2.4	2.5	2.6		
	54.4	-	-	1.8	2.9	4.2	5.9	6.9	8.0	9.3	-	-	1.4	1.7	2.0	2.2	2.3	2.4	2.4		
	48.9	-	-	2.3	3.4	4.8	6.6	7.7	9.0	10.5	-	-	1.4	1.7	1.9	2.1	2.1	2.2	2.2		
	43.3	-	1.6	2.7	3.9	5.4	7.4	8.6	10.0	11.6	-	1.1	1.4	1.6	1.8	1.9	2.0	2.0	2.0		
	37.8	0.8	1.9	2.9	4.2	5.8	8.0	9.3	10.9	12.7	0.9	1.2	1.4	1.6	1.7	1.8	1.8	1.8	1.8		
CUMC10-CR36-S	60	-	-	-	3.1	4.4	6.1	7.0	8.1	9.3	-	-	-	2.2	2.5	2.7	2.9	3.0	3.0		
	54.4	-	-	2.4	3.6	5.1	7.0	8.0	9.2	10.5	-	-	1.8	2.1	2.4	2.6	2.7	2.8	2.9		
	48.9	-	-	2.8	4.2	5.9	7.9	9.0	10.3	11.7	-	-	1.8	2.1	2.3	2.5	2.5	2.6	2.6		
	43.3	-	2.1	3.3	4.8	6.6	8.8	10.0	11.3	12.8	-	1.5	1.7	2.0	2.1	2.3	2.3	2.3	2.4		
	37.8	1.3	2.5	3.9	5.4	7.4	9.6	9.2	12.3	13.9	1.2	1.5	1.7	1.9	2.0	2.1	2.1	2.1	2.1		
CUMC10-CR35-T	60	-	-	-	3.0	5.8	6.3	7.3	8.4	9.8	-	-	-	2.1	2.4	2.7	2.8	2.9	3.0		
	54.4	-	-	2.4	3.9	5.5	7.5	8.6	9.9	11.2	-	-	1.7	2.1	2.3	2.6	2.7	2.7	2.8		
	48.9	-	-	3.0	4.5	6.3	8.4	9.7	11.0	12.5	-	-	1.7	2.0	2.2	2.4	2.5	2.5	2.6		
	43.3	-	2.2	3.6	5.2	7.1	9.4	10.7	12.1	13.7	-	1.4	1.7	1.9	2.1	2.2	2.3	2.3	2.3		
	37.8	1.2	2.7	4.1	5.8	7.9	10.3	11.7	13.2	14.8	1.2	1.4	1.7	1.8	2.0	2.0	2.1	2.1	2.1		
CUMC10-CR41-T	60	-	-	-	3.8	5.3	7.4	8.5	9.8	11.3	-	-	-	2.5	2.8	3.1	3.3	3.4	3.5		
	54.4	-	-	2.9	4.4	6.2	8.4	9.7	11.2	12.7	-	-	2.1	2.4	2.7	3.0	3.1	3.2	3.2		
	48.9	-	-	3.4	5.1	7.1	9.5	10.9	12.5	14.2	-	-	2.0	2.3	2.6	2.8	2.9	2.9	3.0		
	43.3	-	2.5	4.0	5.9	8.0	10.6	12.1	13.7	15.5	-	1.7	2.0	2.2	2.4	2.6	2.6	2.7	2.7		
	37.8	1.5	3.0	4.7	6.6	8.9	11.6	13.2	14.9	16.8	1.4	1.7	2.0	2.2	2.3	2.4	2.4	2.4	2.4		
CUMC12-CR53-T	60	-	-	-	4.6	6.7	9.3	10.8	12.5	14.2	-	-	-	3.0	3.5	4.0	4.2	4.5	4.7		
	54.4	-	-	3.5	5.5	7.9	10.7	12.4	14.1	16.1	-	-	2.5	3.0	3.5	3.9	4.1	4.3	4.5		
	48.9	-	-	4.4	6.5	9.1	12.1	13.9	15.8	17.9	-	-	2.6	3.0	3.4	3.8	3.9	4.1	4.3		
	43.3	-	3.1	5.2	7.5	10.2	13.5	15.4	17.4	19.6	-	2.2	2.6	2.9	3.3	3.6	3.7	3.9	4.0		
	37.8	1.8	3.7	5.9	8.4	11.3	14.8	16.8	19.0	21.3	1.8	2.2	2.6	2.9	3.1	3.4	3.5	3.6	3.7		
CUMC14-CR62-T	60	-	-	-	5.5	8.1	11.2	13.0	15.0	17.1	-	-	-	3.6	4.2	4.8	5.0	5.3	5.6		
	54.4	-	-	4.2	6.7	9.5	12.9	14.9	17.0	19.3	-	-	3.0	3.6	4.1	4.6	4.9	5.1	5.4		
	48.9	-	-	5.2	7.9	10.9	14.6	16.7	19.0	21.5	-	-	3.1	3.6	4.0	4.5	4.7	4.9	5.1		
	43.3	-	3.8	6.2	9.0	12.3	16.3	18.5	20.9	23.6	-	2.6	3.1	3.5	4.0	4.3	4.4	4.6	4.8		
	37.8	2.2	4.5	7.1	10.1	13.6	17.8	20.2	22.8	25.7	2.2	2.6	3.0	3.4	3.7	4.0	4.2	4.3	4.4		

Capacity data at 35°C return gas temperature, 15°F subcooling

Performance Data

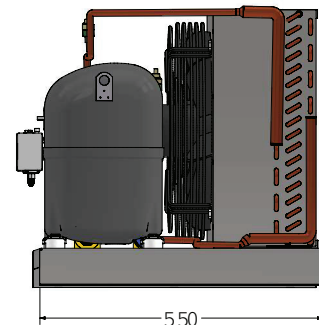
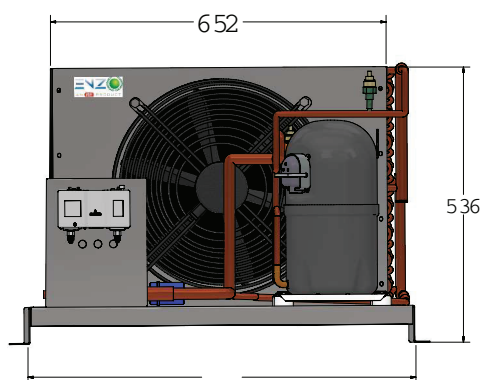
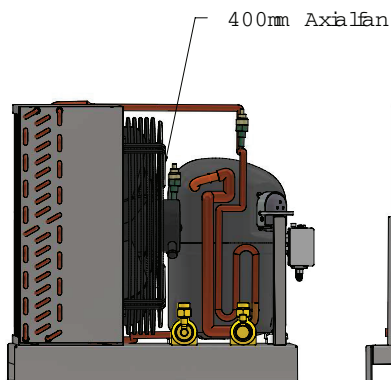
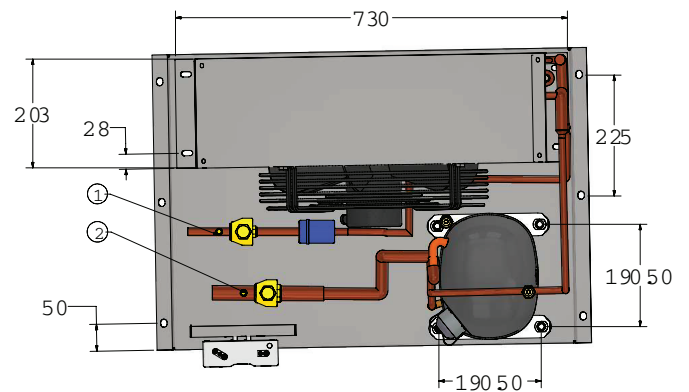
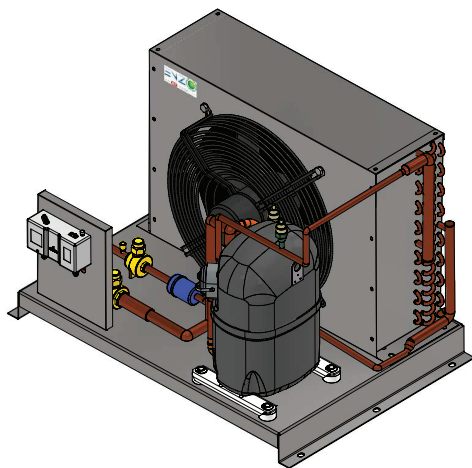
Low Temperature

R404a

Condensing unit model Number of fans	Condensing temperature (°C)	Capacity (kW)						Total power input (kW)					
		Evaporating temperature (°C)											
		-37.2	-31.7	-23.3	-17.8	-12.2	-6.7	-37.2	-31.7	-23.3	-17.8	-12.2	-6.7
CULC4-CM475-S	38	0.7	1.2	2.0	2.8	3.7	4.7	0.8	0.9	1.0	1.1	1.3	1.7
	43	0.6	0.9	1.7	2.4	3.2	4.2	0.9	1.0	1.1	1.2	1.5	1.9
	49	-	0.7	1.4	2.0	2.7	3.6	-	1.1	1.2	1.3	1.6	2.1
	54	-	0.6	1.1	1.6	2.2	3.0	-	1.2	1.2	1.5	1.8	2.2
	60	-	0.0	0.9	1.2	1.7	2.4	-	0.0	1.4	1.6	1.9	2.3
CULC6-CM512-T	38	1.2	2.3	3.3	4.1	5.4	7.5	1.3	1.4	2.0	2.5	2.9	3.2
	43	0.7	1.6	2.7	3.4	4.5	6.6	1.4	1.5	2.1	2.6	3.1	3.4
	49	-	1.4	2.4	2.9	3.8	5.4	-	1.6	2.2	2.7	3.2	3.5
	54	-	1.0	2.0	2.6	3.4	4.7	-	1.7	2.3	2.7	3.3	3.7
	60	-	0.0	1.6	2.1	2.9	4.1	-	0.0	2.3	2.8	3.4	3.8
CULC6-CM515-T	38	1.3	2.5	3.6	4.4	5.9	8.2	1.4	1.9	2.5	2.9	3.2	3.5
	43	1.1	2.2	2.9	3.6	4.6	6.8	1.3	1.7	2.4	3.0	3.5	4.0
	49	-	1.9	2.5	3.2	4.1	5.9	-	1.7	2.3	2.9	3.5	4.2
	54	-	1.3	2.1	3.7	3.5	5.1	-	2.1	2.5	2.8	3.5	4.2
	60	-	0.0	1.7	2.3	3.0	4.4	-	0.0	2.8	3.1	3.5	4.2
CULC7-CM517-T	38	1.7	2.8	4.6	6.1	7.7	9.6	1.7	2.2	2.9	3.3	3.6	3.9
	43	1.5	2.4	4.0	5.3	6.8	8.7	1.7	2.2	2.9	3.4	3.8	4.2
	49	-	1.9	3.4	4.6	6.1	8.0	-	2.2	3.0	3.5	4.0	4.4
	54	-	1.4	2.7	3.9	5.5	7.4	-	2.3	3.0	3.5	4.1	4.6
	60	-	0.0	2.0	3.3	4.9	6.9	-	0.0	3.1	3.6	4.2	4.8
CULC7-CM520-T	38	1.8	2.9	5.0	6.6	8.4	10.2	1.8	2.2	3.1	3.7	4.0	3.8
	43	1.7	2.6	4.3	5.8	7.4	9.1	1.8	2.2	3.0	3.6	3.9	3.8
	49	-	2.2	3.8	5.1	6.7	8.4	-	2.4	3.3	4.0	4.4	4.4
	54	-	1.5	3.1	4.5	6.2	8.0	-	2.4	3.5	4.3	4.8	5.0
	60	-	0.0	2.2	3.7	5.6	7.6	-	0.0	3.1	4.0	4.8	5.3

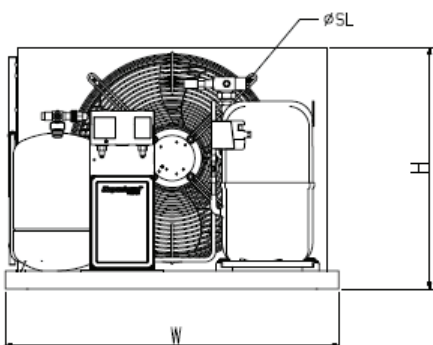
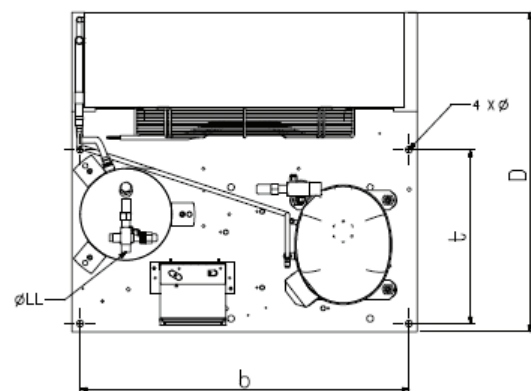
Capacity data at 4 °C return gas temperature, OK subcooling

Dimensional Diagram

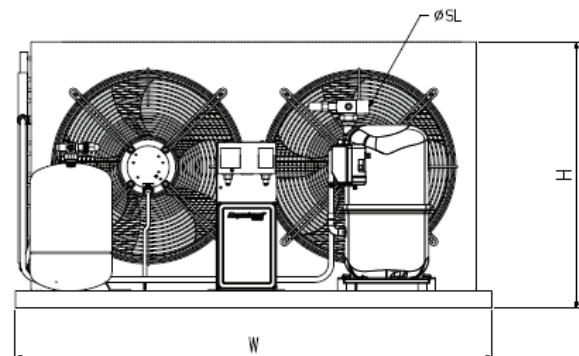
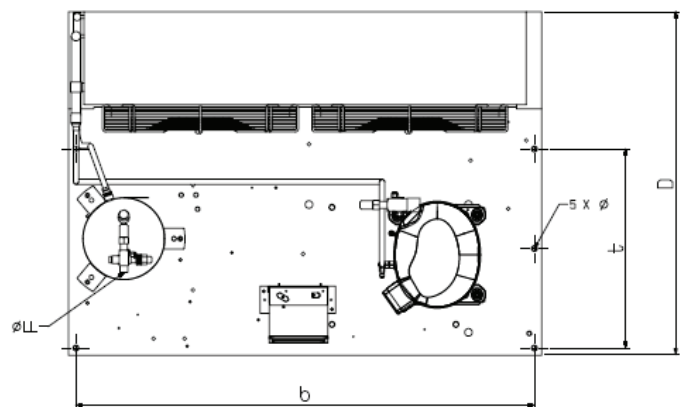


Dimensional Drawing (Medium and low temperature models)

Condenser C8, D8, H7, H8, M8

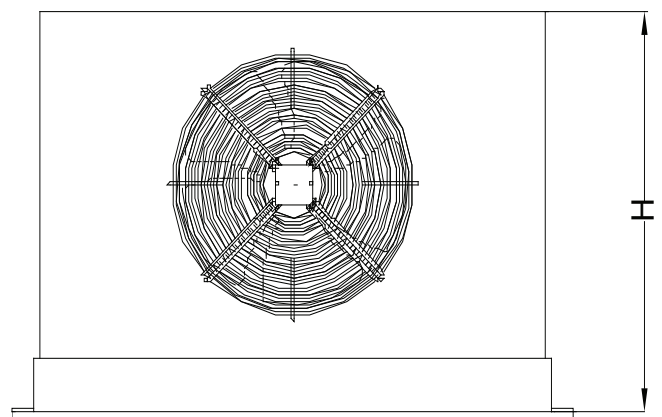
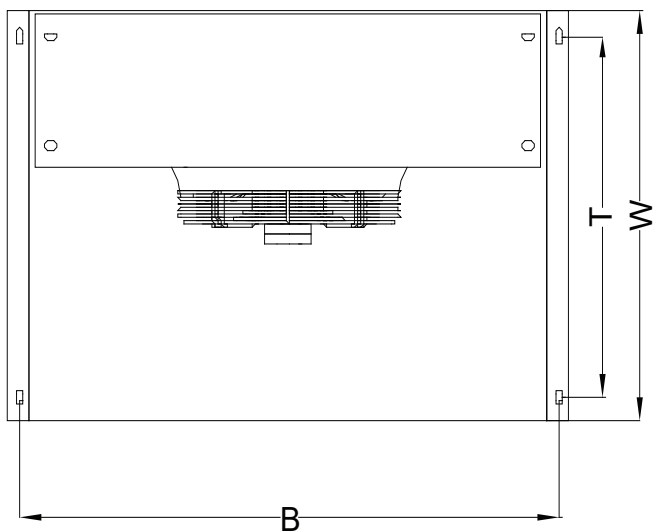


Condenser R6, R7



Mechanical Data

Condensing unit model	Compressor model	Receiver capacity (l)	Air flow	Depth/width [D / W]	Height	Base mounting Ø [b x t] (mm)	Suction Ø [SL] (")	Liquid Ø [LL] (")
			(m³/hr)		[H] (mm)			
CUMC4-CJ513-S	KCJ513HAE-S322H	N.A	1900	725/655	495	682 X 550	3/8"	3/8"
CUMC6-CR21-T	CR21K7ME-TFM-111	N.A	2800	820/655	545	782 X 550	5/8"	3/8"
CUMC6-CR22-S	CR22K7ME-PF1-101	N.A	2800	820/655	545	782 X 550	5/8"	3/8"
CUMC10-CR29-T	CR29K7ME-TFM-111M	N.A	2800	820/655	545	782 X 550	5/8"	3/8"
CUMC10-CR30-S	CR30K7ME-PF1-101	N.A	3200	870/655	595	835 X 550	5/8"	3/8"
CUMC10-CR36-S	CR36K7ME-PFZ-101	N.A	3200	870/655	595	835 X 550	5/8"	3/8"
CUMC10-CR35-T	CR35K7ME-TFM-121	N.A	3200	870/655	595	835 X 550	5/8"	3/8"
CUMC10-CR41-T	CR41K7ME-TFM-101	N.A	3200	870/655	595	835 X 550	5/8"	3/8"
CUMC12-CR53-T	CR53K7ME-TFD-201	N.A	7000	-	-	-	-	-
CUMC14-CR62-T	CR62K7ME-TFD-201	N.A	7000	-	-	-	-	-
CULC4-CM475-S	KCM475LAL-C312H	2	2000	655/655	495	680 X 550	5/8"	3/8"
CULC6-CM512-T	KCM512LAL-E512H	3	2800	815/655	545	780 X 550	5/8"	3/8"
CULC6-CM515-T	KCM515LAL-E512H	3	2800	815/655	545	780 X 550	5/8"	3/8"
CULC7-CM517-T	KCM517LAL-E514H	4	3900	895/650	645	861 X 550	7/8"	1/2"
CULC7-CM520-T	KCM520LAL-E514H	4	3900	895/650	645	861 X 550	7/8"	1/2"



Electrical Data

Condensing unit model	Compressor model	Compressor maximum operating current	Compressor locked rotor current	Condenser fan (qty x model Diameter)	Condenser fan current 230V/1/50Hz(A)
		(A)	(A)		
CUMC4-CJ513-S	KCJ513HAE-S322H	7.5	36	1 X 350	0.65
CUMC6-CR21-T	CR21K7ME-TFM-111	5.1	27.5	1 X 400	0.82
CUMC6-CR22-S	CR22K7ME-PF1-101	13.5	56.5	1 X 400	0.82
CUMC10-CR29-T	CR29K7ME-TFM-111M	7.2	40	1 X 400	0.82
CUMC10-CR30-S	CR30K7ME-PF1-101	17.1	72	1 X 400	0.82
CUMC10-CR36-S	CR36K7ME-PFZ-101	16.3	85	1 X 450	1.15
CUMC10-CR35-T	CR35K7ME-TFM-121	7.3	45	1 X 450	1.15
CUMC10-CR41-T	CR41K7ME-TFM-101	8.5	45	1 X 450	1.15
CUMC12-CR53-T	CR53K7ME-TFD-201	11	54	2 X 450	2.3
CUMC14-CR62-T	CR62K7ME-TFD-201	17.5	55	2 X 450	2.3
CULC4-CM475-S	KCM475LAL-C312H	6.2	72	1 X 350	0.65
CULC6-CM512-T	KCM512LAL-E512H	7.3	45	1 X 450	1.15
CULC6-CM515-T	KCM515LAL-E512H	8	45	1 X 450	1.15
CULC7-CM517-T	KCM517LAL-E514H	8.24	61	1 X 450	1.15
CULC7-CM520-T	KCM520LAL-E514H	9.1	55	1 X 450	1.15



Reliability You Trust

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