



KIRBY® MULTIWAVE

Cascade Condensing Unit System

Compact refrigerant systems
for commercial applications
delivered ready to install



Exclusively distributed by

KIRBY
A BEIJER REF Company

KIRBY MULTIWAVE

Cascade Condensing Unit System

Introduction

The Kirby® Multiwave Cascade CO₂/HFC Condensing Unit System is the ideal choice for small format retail food and cold storage applications.

Delivering up to 30% in savings across refrigerant plant costs through the elimination of a conventional central plant room, Kirby® Multiwave's compact design is also ideal for installations where space may be at a premium.

This innovative design includes a low-medium temperature multi-compressor rack system, high performance condenser and fully configured integrated switchboard all contained in a fully enclosed, purpose-built enclosure, resulting a 'ready-to-install' solution.

Features & Benefits

The Kirby® Multiwave evaporator range offers:

- Copeland Scroll Digital™ or Dorin® semi-hermetic compressor fitted with variable speed drive
- Fully wired and pre-programmed Emerson pack controls for faster installation and assured performance
- High efficiency air cooled 'V' section condenser block sections with low noise EC fan air movement
- Compact footprint which ensures suitability for most installations in an outdoor environment
- Ease of serviceability made possible by multiple removable access panels
- Remote install CO₂ desuperheater and on-board backup condensing unit for CO₂ receiver stand by-cooling
- Multiple field service connection stub configuration

Kirby® Multiwave condensing units can be configured with the following options:

- Liquid drier bypass for R134a
- Drip tray for R744
- Epoxy coating for R134a condenser
- Heat reclaim BPHE

Kirby® Multiwave Cascade Condensing Unit System – Nomenclature

MC-A	20	40	C	2W	CS
<p>Nominal MT Duty 40 LT Duty @ -30°C SST / -3°C SCT</p>			<p>Configuration CS Standard Cascade CO₂/R134a</p>		
<p>Nominal LT Duty 20 LT Duty @ -30°C SST / -3°C SCT</p>			<p>V Block Coil 2 Number of V Block Coils W Twin Coil Tube & Fin Condenser</p>		
<p>Product Brand MC-A Kirby Multiwave</p>			<p>Compressor Brand C Copeland D Dorin</p>		

MULTIWAVE CASCADE CONDENSING UNIT SYSTEM

R744 Performance Data

PRODUCT NUMBER	SCT °C (R744)	CAPACITY				POWER INPUT				THERMAL REJECTION				RECEIVER CAPACITY (kg)
		SST @ °C (R744)												
		-35	-30	-25	-20	-35	-30	-25	-20	-35	-30	-25	-20	
COPELAND SCROLL DIGITAL COMPRESSORS														
MC-A20/40C2WCS	-2	16,970	20,770	25,100	–	5,020	4,930	4,790	–	21,990	25,700	29,890	–	38.0
	-3	17,200	21,040	25,450	–	4,880	4,790	4,660	–	22,080	25,830	30,110	–	
	-4	17,430	21,310	25,750	–	4,750	4,650	4,530	–	22,180	25,960	30,280	–	
	-6	15,060	18,400	22,300	–	3,920	3,820	3,680	–	18,980	22,220	25,980	–	
MC-A20/95C3WCS	-2	16,970	20,770	25,100	–	5,020	4,930	4,790	–	21,990	25,700	29,890	–	38.0
	-3	17,200	21,040	25,450	–	4,880	4,790	4,660	–	22,080	25,830	30,110	–	
	-4	17,430	21,310	25,750	–	4,750	4,650	4,530	–	22,180	25,960	30,280	–	
	-6	15,060	18,400	22,300	–	3,920	3,820	3,680	–	18,980	22,220	25,980	–	
MC-A25/75C3WCS	-2	20,800	25,880	31,750	–	6,640	6,460	6,260	–	27,440	32,340	38,010	–	38.0
	-3	21,140	26,280	32,200	–	6,440	6,280	6,090	–	27,580	32,560	38,290	–	
	-4	21,490	26,680	32,650	–	6,250	6,100	5,910	–	27,740	32,780	38,560	–	
	-6	22,190	27,480	33,550	–	5,900	5,730	5,560	–	28,090	33,210	39,110	–	
MC-A30/80C3WCS	-2	26,820	32,820	39,650	–	7,860	7,720	7,520	–	34,680	40,540	47,170	–	38.0
	-3	27,180	33,240	40,200	–	7,640	7,500	7,310	–	34,820	40,740	47,510	–	
	-4	27,530	33,660	40,650	–	7,430	7,280	7,110	–	34,960	40,940	47,760	–	
	-6	22,590	27,600	33,450	–	5,880	5,730	5,520	–	28,470	33,330	38,970	–	
MC-A40/100C4WCS	-2	32,020	39,320	47,750	–	9,500	9,220	8,880	–	41,520	48,540	56,630	–	38.0
	-3	32,420	39,840	48,400	–	9,220	8,940	8,610	–	41,640	48,780	57,010	–	
	-4	32,930	40,360	49,050	–	8,950	8,660	8,350	–	41,880	49,020	57,400	–	
	-6	33,830	41,500	50,350	–	8,420	8,130	62,040	–	42,250	49,630	112,390	–	
DORIN SEMI-HERMETIC COMPRESSORS														
MC-A20/40D2WCS	-2	14,258	17,790	21,732	26,140	4,600	4,540	4,280	3,840	18,858	22,330	26,012	29,980	38.0
	-3	14,524	18,086	22,070	26,534	4,500	4,400	4,120	3,660	19,024	22,486	26,190	30,194	
	-4	14,784	18,380	22,408	26,926	4,380	4,260	3,960	3,480	19,164	22,640	26,368	30,406	
	-6	15,300	18,960	23,078	–	4,160	4,000	3,660	–	19,460	22,960	26,738	–	
MC-A20/95D3WCS	-2	14,258	17,790	21,732	26,140	4,600	4,540	4,280	3,840	18,858	22,330	26,012	29,980	38.0
	-3	14,524	18,086	22,070	26,534	4,500	4,400	4,120	3,660	19,024	22,486	26,190	30,194	
	-4	14,784	18,380	22,408	26,926	4,380	4,260	3,960	3,480	19,164	22,640	26,368	30,406	
	-6	15,300	18,960	23,078	–	4,160	4,000	3,660	–	19,460	22,960	26,738	–	
MC-A25/75D3WCS	-2	18,600	23,144	28,176	33,784	5,900	5,820	5,460	4,900	24,500	28,964	33,636	38,684	38.0
	-3	18,948	23,524	28,608	34,282	5,760	5,640	5,260	4,680	24,708	29,164	33,868	38,962	
	-4	19,290	23,902	29,036	34,776	5,620	5,460	5,060	4,460	24,910	29,362	34,096	39,236	
	-6	19,960	24,644	29,882	–	5,340	5,100	4,660	–	25,300	29,744	34,542	–	
MC-A30/70D3WCS	-2	22,730	28,092	34,150	40,988	7,180	7,020	6,600	5,960	29,910	35,112	40,750	46,948	38.0
	-3	23,136	28,558	34,688	41,612	7,000	6,800	6,360	5,700	30,136	35,358	41,048	47,312	
	-4	23,540	29,018	35,220	4,230	6,800	6,580	6,100	5,420	30,340	35,598	41,320	9,650	
	-6	24,332	29,926	36,270	–	6,440	6,140	5,620	–	30,772	36,066	41,890	–	
MC-A40/100D4WCS	-2	34,095	42,138	51,225	61,482	10,770	10,530	9,900	8,940	44,865	52,668	61,125	70,422	38.0
	-3	34,704	42,837	52,032	62,418	10,500	10,200	9,540	8,550	45,204	53,037	61,572	70,968	
	-4	35,310	43,527	52,830	6,345	10,200	9,870	9,150	8,130	45,510	53,397	61,980	14,475	
	-6	36,498	44,889	54,405	–	9,660	9,210	8,430	–	46,158	54,099	62,835	–	

MULTIWAVE CASCADE CONDENSING UNIT SYSTEM

R134a Performance Data @ 1,090RPM

PRODUCT NUMBER	AMBIENT TEMP. (°C)	CAPACITY (W) @ 0°C SUBCOOLING, 20°C RETURN GAS									RECEIVER CAPACITY (kg)
		LT			MT			HT			
		-30	-25	-20	-15	-10	-5	0	5	10	
COPELAND SCROLL DIGITAL COMPRESSORS – TOTAL R134a CAPACITY											
MC-A20/40C2WCS	35	–	–	–	62,340	77,968	95,823	116,027	–	–	106.9
	45	–	–	–	53,840	67,659	83,427	101,265	–	–	
MC-A20/95C3WCS	35	–	–	–	104,610	130,168	159,304	192,363	–	–	106.9
	45	–	–	–	96,869	120,925	148,368	179,590	–	–	
MC-A25/75C3WCS	35	–	–	–	101,619	126,849	155,812	188,809	–	–	106.9
	45	–	–	–	87,933	110,250	135,841	165,007	–	–	
MC-A30/80C3WCS	35	–	–	–	109,535	136,417	167,125	201,955	–	–	106.9
	45	–	–	–	94,611	118,322	145,352	176,000	–	–	
MC-A40/100C4WCS	35	–	–	–	122,225	152,442	187,145	227,055	–	–	106.9
	45	–	–	–	106,347	132,751	163,053	197,939	–	–	
DORIN SEMI-HERMETIC COMPRESSORS – TOTAL R134a CAPACITY											
MC-A20/40D2WCS	35	–	–	–	58,230	74,039	92,531	114,033	–	–	106.9
	45	–	–	–	49,336	63,116	79,535	98,784	–	–	
MC-A20/95D3WCS	35	–	–	–	96,782	122,412	152,351	187,106	–	–	106.9
	45	–	–	–	82,439	104,796	131,399	162,532	–	–	
MC-A25/75D3WCS	35	–	–	–	96,782	122,412	152,351	187,106	–	–	106.9
	45	–	–	–	82,439	104,796	131,399	162,532	–	–	
MC-A30/70D3WCS	35	–	–	–	96,782	122,412	152,351	187,106	–	–	106.9
	45	–	–	–	82,439	104,796	131,399	162,532	–	–	
MC-A40/100D4WCS	35	–	–	–	116,425	148,069	185,069	228,089	–	–	106.9
	45	–	–	–	98,678	126,408	159,482	198,268	–	–	
COPELAND SCROLL DIGITAL COMPRESSORS – NET R134a CAPACITY											
MC-A20/40C2WCS	35	–	–	–	36,510	52,138	69,993	90,197	–	–	106.9
	45	–	–	–	28,010	41,829	57,597	75,435	–	–	
MC-A20/95C3WCS	35	–	–	–	78,780	104,338	133,474	166,533	–	–	106.9
	45	–	–	–	71,039	95,095	122,538	153,760	–	–	
MC-A25/75C3WCS	35	–	–	–	69,059	94,289	123,252	156,249	–	–	106.9
	45	–	–	–	55,373	77,690	103,281	132,447	–	–	
MC-A30/80C3WCS	35	–	–	–	68,795	95,677	126,385	161,215	–	–	106.9
	45	–	–	–	53,871	77,582	104,612	135,260	–	–	
MC-A40/100C4WCS	35	–	–	–	73,445	103,662	138,365	178,275	–	–	106.9
	45	–	–	–	57,567	83,971	114,273	149,159	–	–	
DORIN SEMI-HERMETIC COMPRESSORS – NET R134a CAPACITY											
MC-A20/40D2WCS	35	–	–	–	35,744	51,553	70,045	91,547	–	–	106.9
	45	–	–	–	26,850	40,630	57,049	76,298	–	–	
MC-A20/95D3WCS	35	–	–	–	74,296	99,926	129,865	164,620	–	–	106.9
	45	–	–	–	59,953	82,310	108,913	140,046	–	–	
MC-A25/75D3WCS	35	–	–	–	67,618	93,248	123,187	157,942	–	–	106.9
	45	–	–	–	53,275	75,632	102,235	133,368	–	–	
MC-A30/70D3WCS	35	–	–	–	61,424	87,054	116,993	151,748	–	–	106.9
	45	–	–	–	47,081	69,438	96,041	127,174	–	–	
MC-A40/100D4WCS	35	–	–	–	63,388	95,032	132,032	175,052	–	–	106.9
	45	–	–	–	45,641	73,371	106,445	145,231	–	–	

MULTIWAVE CASCADE CONDENSING UNIT SYSTEM

R134a Performance Data @ 680RPM

PRODUCT NUMBER	AMBIENT TEMP. (°C)	PERFORMANCE DATA @ 680RPM									RECEIVER CAPACITY (kg)
		LT			MT			HT			
		-30	-25	-20	-15	-10	-5	0	5	10	
COPELAND SCROLL DIGITAL COMPRESSORS – TOTAL R134a CAPACITY											
MC-A20/40C2WCS	35	–	–	–	61,196	76,308	93,480	112,775	–	–	106.9
	45	–	–	–	52,726	66,009	81,072	98,009	–	–	
MC-A20/95C3WCS	35	–	–	–	109,521	135,824	165,628	199,248	–	–	106.9
	45	–	–	–	94,541	117,507	143,517	172,883	–	–	
MC-A25/75C3WCS	35	–	–	–	99,649	123,982	151,718	183,090	–	–	106.9
	45	–	–	–	85,988	107,394	131,787	159,404	–	–	
MC-A30/80C3WCS	35	–	–	–	107,155	132,988	162,329	195,341	–	–	106.9
	45	–	–	–	91,983	114,622	140,511	169,617	–	–	
MC-A40/100C4WCS	35	–	–	–	120,090	149,298	182,616	220,654	–	–	106.9
	45	–	–	–	104,337	129,721	158,670	191,782	–	–	
DORIN SEMI-HERMETIC COMPRESSORS – TOTAL R134a CAPACITY											
MC-A20/40D2WCS	35	–	–	–	57,114	72,412	90,221	110,819	–	–	106.9
	45	–	–	–	48,355	61,582	77,267	95,586	–	–	
MC-A20/95D3WCS	35	–	–	–	94,927	119,613	148,097	181,071	–	–	106.9
	45	–	–	–	80,706	102,064	127,318	156,765	–	–	
MC-A25/75D3WCS	35	–	–	–	94,927	119,613	148,097	181,071	–	–	106.9
	45	–	–	–	80,706	102,064	127,318	156,765	–	–	
MC-A30/70D3WCS	35	–	–	–	94,927	119,613	148,097	181,071	–	–	106.9
	45	–	–	–	80,706	102,064	127,318	156,765	–	–	
MC-A40/100D4WCS	35	–	–	–	114,235	144,850	180,486	221,731	–	–	106.9
	45	–	–	–	96,723	123,364	154,975	191,907	–	–	
COPELAND SCROLL DIGITAL COMPRESSORS – NET R134a CAPACITY											
MC-A20/40C2WCS	35	–	–	–	35,366	50,478	67,650	86,945	–	–	106.9
	45	–	–	–	26,896	40,179	55,242	72,179	–	–	
MC-A20/95C3WCS	35	–	–	–	83,691	109,994	139,798	173,418	–	–	106.9
	45	–	–	–	68,711	91,677	117,687	147,053	–	–	
MC-A25/75C3WCS	35	–	–	–	67,089	91,422	119,158	150,530	–	–	106.9
	45	–	–	–	53,428	74,834	99,227	126,844	–	–	
MC-A30/80C3WCS	35	–	–	–	66,415	92,248	121,589	154,601	–	–	106.9
	45	–	–	–	51,243	73,882	99,771	128,877	–	–	
MC-A40/100C4WCS	35	–	–	–	71,310	100,518	133,836	171,874	–	–	106.9
	45	–	–	–	55,557	80,941	109,890	143,002	–	–	
DORIN SEMI-HERMETIC COMPRESSORS – NET R134a CAPACITY											
MC-A20/40D2WCS	35	–	–	–	34,628	49,926	67,735	88,333	–	–	106.9
	45	–	–	–	25,869	39,096	54,781	73,100	–	–	
MC-A20/95D3WCS	35	–	–	–	72,441	97,127	125,611	158,585	–	–	106.9
	45	–	–	–	58,220	79,578	104,832	134,279	–	–	
MC-A25/75D3WCS	35	–	–	–	65,763	90,449	118,933	151,907	–	–	106.9
	45	–	–	–	51,542	72,900	98,154	127,601	–	–	
MC-A30/70D3WCS	35	–	–	–	59,569	84,255	112,739	145,713	–	–	106.9
	45	–	–	–	45,348	66,706	91,960	121,407	–	–	
MC-A40/100D4WCS	35	–	–	–	61,198	91,813	127,449	168,694	–	–	106.9
	45	–	–	–	43,686	70,327	101,938	138,870	–	–	

MULTIWAVE CASCADE CONDENSING UNIT SYSTEM

R744 Technical Data

PRODUCT NUMBER	TECHNICAL DATA - R744							UNIT ELECTRICAL DATA				
	COMPRESSOR 1	COMPRESSOR 2	COMPRESSOR 3	MAX. COND. TEMP. (°C)	MIN. COND. TEMP. (°C)	MIN. SST @ MAX. COND. TEMP. (°C)	RECEIVER VOLUME (L)	MCC	LRA	RLA	COMP. INPUT	UNIT INPUT
COPELAND DIGITAL SCROLL COMPRESSORS												
MC-A20/40C2WCS	ZOD34KK3E-TFD	ZO45K3E-TFDN	N/A	0	-6	-35	50	167.90	515.00	88.84	37,890	49,829
MC-A20/95C3WCS	ZOD34KK3E-TFD	ZO45K3E-TFDN	N/A	0	-6	-35	50	268.10	875.00	145.38	64,140	82,039
MC-A25/75C3WCS	ZOD34KK3E-TFD	ZO34K3E-TFDN	ZO34K3E-TFDN	0	-6	-35	50	249.20	843.00	138.27	58,930	76,829
MC-A30/80C3WCS	ZOD34KK3E-TFD	ZO45K3E-TFDN	ZO45K3E-TFDN	0	-6	-35	50	265.80	861.00	146.15	64,590	82,489
MC-A40/100C4WCS	ZOD34KK3E-TFD	ZO58K3E-TFDN	ZO58K3E-TFDN	0	-6	-35	50	303.90	1,034.00	170.00	73,140	96,999
DORIN SEMI-HERMETIC COMPRESSORS												
MC-A20/40D2WCS	CDS301B	CDS301B	N/A	0	-6	-35	50	131.00	422.50	71.80	35,660	47,580
MC-A20/95D3WCS	CDS301B	CDS301B	N/A	0	-6	-35	50	202.00	658.00	110.40	56,210	74,090
MC-A25/75D3WCS	CDS351B	CDS351B	N/A	0	-6	-35	50	204.60	673.00	108.40	57,450	75,330
MC-A30/70D3WCS	CDS381B	CDS381B	N/A	0	-6	-35	50	208.80	696.00	110.40	58,610	76,490
MC-A40/100D4WCS	CDS381B	CDS381B	CDS381B	0	-6	-35	50	251.20	865.50	135.00	72,690	96,530

MULTIWAVE CASCADE CONDENSING UNIT SYSTEM

R134a Technical Data

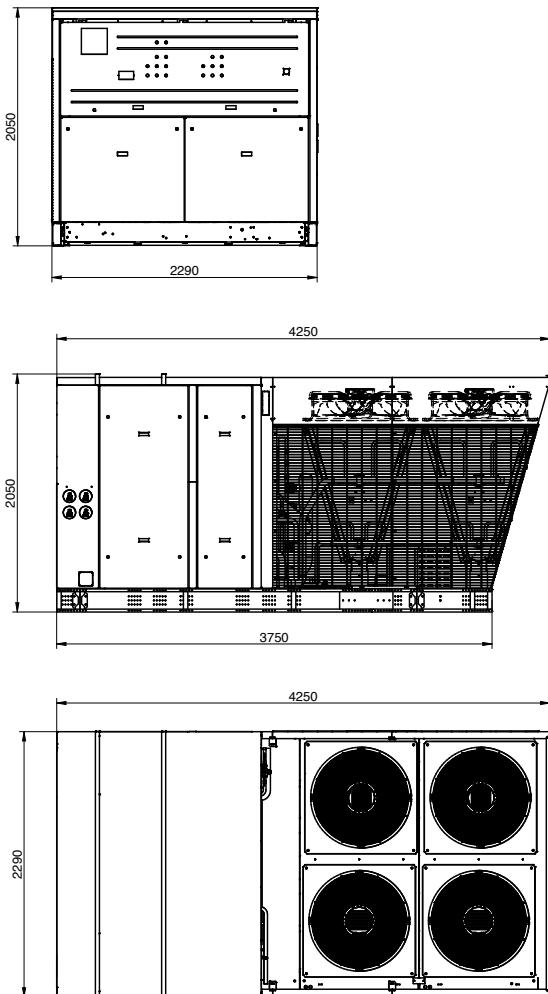
PRODUCT NUMBER	TECHNICAL DATA - R134a						UNIT ELECTRICAL DATA				
	COMPRESSOR 1	COMPRESSOR 2	COMPRESSOR 3	MAXIMUM AMBIENT TEMP. (°C)	MAXIMUM SST @ MAXIMUM AMBIENT TEMP. (°C)	RECEIVER VOLUME (L)	MCC	LRA	RLA	COMP. INPUT	UNIT INPUT
COPELAND DIGITAL SCROLL COMPRESSORS											
MC-A20/40C2WCS	6MTD-35X-AWM	4MU-25X-AWM	N/A	45	10	130	167.90	515.00	88.84	37,890	49,829
MC-A20/95C3WCS	6MUD-40X-AWM	6MT-35X-AWM	6MT-35X-AWM	45	10	130	268.10	875.00	145.38	64,140	82,039
MC-A25/75C3WCS	6MTD-35X-AWM	6MM-30X-AWM	6MM-30X-AWM	45	10	130	249.20	843.00	138.27	58,930	76,829
MC-A30/80C3WCS	6MTD-35X-AWM	6MT-35X-AWM	6MM-35X-AWM	45	10	130	265.80	861.00	146.15	64,590	82,489
MC-A40/100C4WCS	6MUD-40X-AWM	6MU-40X-AWM	6MU-40X-AWM	45	10	130	303.90	1,034.00	170.00	73,140	96,999
DORIN SEMI-HERMETIC COMPRESSORS											
MC-A20/40D2WCS	H2400EP	H1700EP	N/A	45	5	130	131.00	422.50	71.80	35,660	47,580
MC-A20/95D3WCS	H2400EP	H2400EP	H2400EP	45	5	130	202.00	658.00	110.40	56,210	74,090
MC-A25/75D3WCS	H2400EP	H2400EP	H2400EP	45	5	130	204.60	673.00	108.40	57,450	75,330
MC-A30/70D3WCS	H2400EP	H2400EP	H2400EP	45	5	130	208.80	696.00	110.40	58,610	76,490
MC-A40/100D4WCS	H3000EP	H3000EP	H3000EP	45	5	130	251.20	865.50	135.00	72,690	96,530

MULTIWAVE CASCADE CONDENSING UNIT SYSTEM

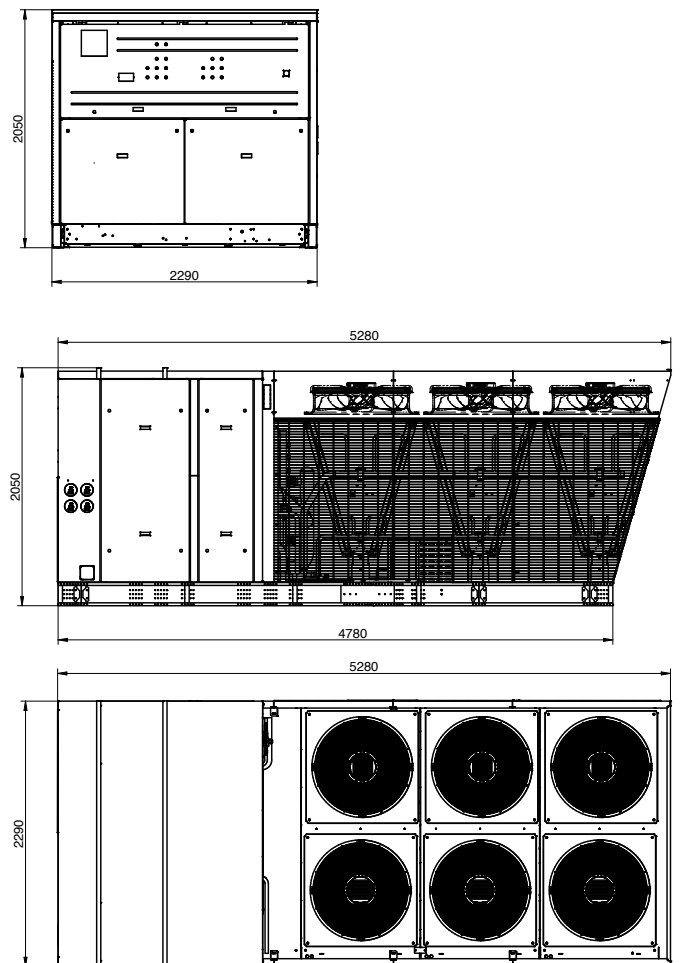
Physical Data

PRODUCT NUMBER	DIMENSIONS (MM)				CONNECTIONS (ins)								WEIGHT (kg)	
	WIDTH	HEIGHT	LENGTH (TOP)	LENGTH (BASE)	R744		R134a		DESUPERHEATER		R744 PRV		UNPACKED	PACKED
					LIQUID (x2)	SUCTION (x2)	LIQUID (x3)	SUCTION (x3)	INLET	OUTLET	HIGH SIDE (x2)	LOW SIDE (x1)		
COPELAND DIGITAL SCROLL COMPRESSORS														
MC-A20/40C2WCS	2,290	2,050	4,250	3,750	7/8"S	1 1/8"S	1 1/8"S	2 1/8"S	7/8"S	7/8"S	1/2"S	1/2"S	3,600	3,800
MC-A20/95C3WCS	2,290	2,050	5,280	4,780	7/8"S	1 1/8"S	1 1/8"S	2 1/8"S	7/8"S	7/8"S	1/2"S	1/2"S	4,200	4,400
MC-A25/75C3WCS	2,290	2,050	5,280	4,780	7/8"S	1 1/8"S	1 1/8"S	2 1/8"S	7/8"S	7/8"S	1/2"S	1/2"S	4,200	4,400
MC-A30/80C3WCS	2,290	2,050	5,280	4,780	7/8"S	1 1/8"S	1 1/8"S	2 1/8"S	7/8"S	7/8"S	1/2"S	1/2"S	4,300	4,500
MC-A40/100C4WCS	2,290	2,050	6,310	5,810	7/8"S	1 1/8"S	1 1/8"S	2 1/8"S	7/8"S	7/8"S	1/2"S	1/2"S	4,700	4,900
DORIN SEMI-HERMETIC COMPRESSORS														
MC-A20/40D2WCS	2,290	2,050	4,250	3,750	7/8"S	1 1/8"S	1 1/8"S	2 1/8"S	7/8"S	7/8"S	1/2"S	1/2"S	3,700	3,900
MC-A20/95D3WCS	2,290	2,050	5,280	4,780	7/8"S	1 1/8"S	1 1/8"S	2 1/8"S	7/8"S	7/8"S	1/2"S	1/2"S	4,300	4,500
MC-A25/75D3WCS	2,290	2,050	5,280	4,780	7/8"S	1 1/8"S	1 1/8"S	2 1/8"S	7/8"S	7/8"S	1/2"S	1/2"S	4,300	4,500
MC-A30/70D3WCS	2,290	2,050	5,280	4,780	7/8"S	1 1/8"S	1 1/8"S	2 1/8"S	7/8"S	7/8"S	1/2"S	1/2"S	4,400	4,600
MC-A40/100D4WCS	2,290	2,050	6,310	5,810	7/8"S	1 1/8"S	1 1/8"S	2 1/8"S	7/8"S	7/8"S	1/2"S	1/2"S	4,800	5,000

2W Dimensions

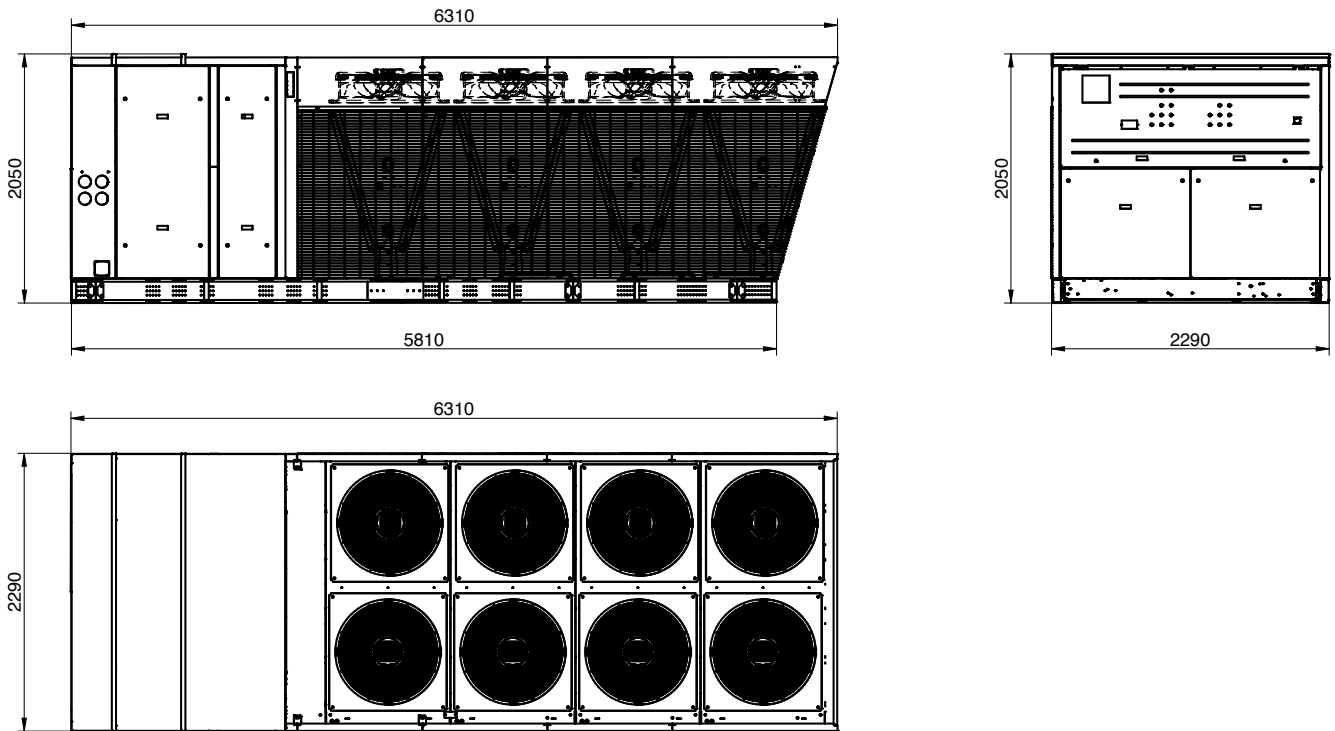


3W Dimensions



MULTIWAVE CASCADE CONDENSING UNIT SYSTEM

4W Dimensions



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