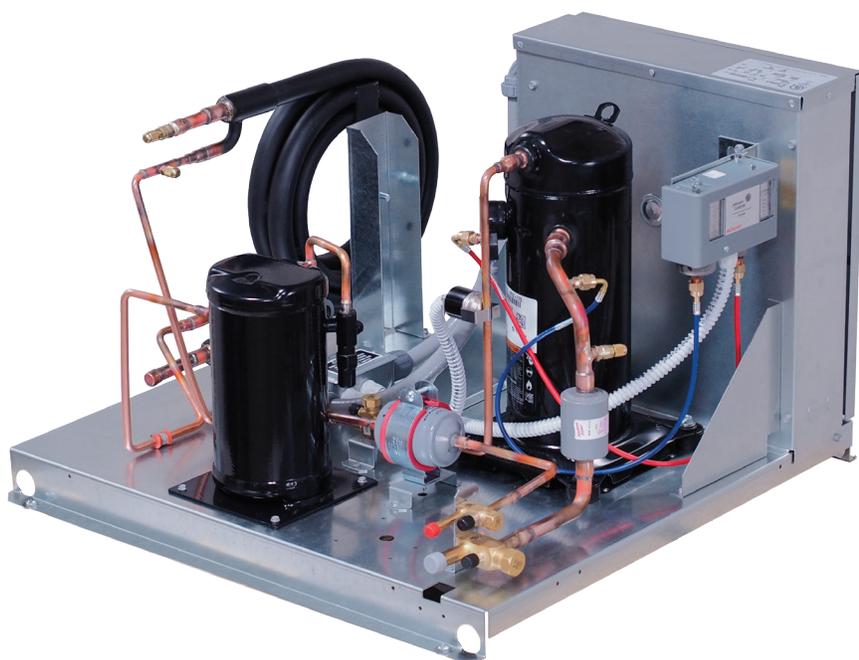


# KRAMER

## A1 & A2L DUAL-RATED WC SERIES™



**1/2 to 6 HP**  
Indoor Water-Cooled Condensing Units

## COMPACT AND EFFICIENT WATER-COOLED UNITS

Next-Gen WC Series™ Water-Cooled Condensing Units capitalize on the Next-Gen MiniCon's award-winning design success. This exciting product offering features greater serviceability, increased unit efficiency, and is compatible for use with multiple refrigerants. The improvements start with mechanically formed pre-bent tubing for reduced leak potential, high efficiency water cooled coaxial condenser and heat exchange, base mounted shut-off valves, a large electrical control panel with removable door and abundant room for standard components and system accessories along with color-coded and numbered point-to-point wiring that assist in easy service and unit maintenance.

### MODEL NOMENCLATURE

<b>K</b>	<b>W</b>	<b>O</b>	<b>N</b>	<b>500</b>	<b>E</b>	<b>4A</b>	<b>E</b>	<b>A</b>
Brand	Style	Compressor	Compressor Configuration	Horsepower	Temperature	Refrigerant	Voltage Code	Vintage
K = Kramer	W = Water-Cooled	O = Scroll	N = Single Horizontal (small)	500 = 5HP	L = Low M = Medium E = Ext. Medium	4A= Multiple refrigerants	D = 208-230/1/60 E = 208-230/3/60 G = 460/3/60	A

\* R454A, R454C, R455A and R404A, R407A, R407C, R448A, R449A

FEATURES AND OPTIONS

● Standard ○ Optional ⊖ Not Available

Feature	Description	Medium & Low Temperatures
Cabinet	Galvanized steel frame	●
	316 stainless steel	○
	Large control panel for power and control circuits	●
	Hinged/removable control panel door	●
	Two tier stacking rack	○
Compressor	Scroll	●
Electrical	Leak detection and mitigation	●
	Compressor contactor (1Ø or 3Ø), start kit (1Ø)	●
	Control transformer (460V to 230V) as required	●
	Adjustable high and low pressure controls	●
	Color-coded wiring for maximum serviceability	●
	Crankcase heater	○
	Thru the door non-fused disconnect switch	○
	External fused disconnect (loose or mounted)	○
	Pump down toggle switch	○
	Phase loss monitor	○
High Efficiency Condenser	High efficiency water-cooled coaxial condenser	●
	Cupronickel heat exchanger and water piping	○
	Water regulating valve	○
	Cupronickel water regulating valve	○
Piping Components	Base mounted liquid and suction shut-off valves	●
	Suction line (piping only)	●
	Suction kit (piping and sealed suction filter)	○
	Suction line accumulator	○
	Replaceable core liquid filter	○
	Replaceable core suction filter	○
	Liquid line kit*	●
	Oil separator	○
Receiver	Liquid line solenoid	○
	Receiver isolation valve	●
	Fusible plug	●
	Fusible valve	○
Defrost Provisions	Heated and insulated receivers	○
	Electronic air defrost time clock for medium temps <sup>^</sup>	●
	Mechanical defrost timer	○
	50 HZ defrost timers with or without contactors	○
	Low Temperature Electric defrost <sup>1</sup>	●
	Medium Temperature Electric defrost <sup>1</sup>	○
	Paragon mechanical timer in lieu of electronic timer	○
	Timer shipped loose in enclosure	○
CPC timer	○	

\* Liquid line kit includes piping, filter drier, sight glass with moisture indicator.

<sup>1</sup> Electric defrost kit is included on low temperature models & optional for medium temperature models - see electrical data page 8

<sup>^</sup> Standard on extended medium temperature models only.

## PERFORMANCE @ 105°F CONDENSING TEMPERATURE

SCROLL MODELS // EXTENDED MEDIUM TEMPERATURE // R454A, R454C

Model No.		BTUH Capacity @ Suction Temperature (°F)												GPM Req. for 85°F EWT <sup>^</sup>	
		45°	35°	30°	25°	20°	15°	10°	0°	-10°	-15°	-20°	-25°	GPM GAL/ MIN	Water DP (PSI)
R454A	KWON060M4A**	11,350	9,220	8,270	7,400	6,610	5,890	5,230	4,100	3,190	-	-	-	1.5	0.4
	KWON080M4A**	13,700	11,150	10,000	8,970	8,010	7,140	6,350	4,990	3,880	-	-	-	2.0	0.6
	KWON100M4A**	16,000	13,000	11,700	10,450	9,350	8,340	7,420	5,830	4,550	-	-	-	2.5	0.9
	KWON130E4A**	17,850	16,100	13,050	11,650	10,400	9,290	8,250	6,470	5,040	4,450	3,920	3,450	2.9	1.2
	KWON150E4A**	21,000	17,050	15,350	13,750	12,300	10,950	9,720	7,630	5,940	5,240	4,630	4,090	3.6	1.9
	KWON180E4A**	24,100	19,700	17,700	15,900	14,200	12,700	11,300	8,900	6,950	6,130	5,390	4,740	4.0	0.5
	KWON200E4A**	29,000	23,700	21,400	19,200	17,200	15,400	13,700	10,800	8,450	7,440	6,530	5,720	5.3	0.9
	KWON250E4A**	32,300	26,400	23,800	21,400	19,200	17,200	15,350	12,100	9,480	8,350	7,340	6,420	6.5	1.2
	KWON280E4A**	38,600	31,600	28,500	25,600	22,900	20,500	18,300	14,450	11,250	9,910	8,690	7,590	8.0	1.7
	KWON300E4A**	43,300	35,400	31,900	28,700	25,700	23,000	20,600	16,250	12,750	11,250	9,870	8,640	11.5	3.2
	KWON350E4A**	48,200	39,400	35,600	32,000	28,700	25,700	22,900	18,150	14,200	12,500	10,950	9,540	12.0	3.5
	KWON400E4A**	54,400	44,700	40,300	36,300	32,600	29,100	26,000	20,600	16,100	14,200	12,550	11,050	9.1	0.8
	KWON450E4A**	61,000	49,900	45,000	40,500	36,300	32,500	29,100	23,000	18,100	15,950	14,050	12,300	11.0	1.2
	KWON500E4A**	70,100	57,700	52,100	47,000	42,200	37,800	33,800	26,800	21,100	18,600	16,400	14,450	14.4	1.9
	KWON600E4A**	83,300	68,600	62,000	55,900	50,200	45,000	40,200	31,900	25,000	22,100	19,450	17,100	20.5	3.6
R454C	KWON060M4A**	9,820	8,070	7,230	6,460	5,750	5,110	4,530	3,540	2,720	-	-	-	1.5	0.4
	KWON080M4A**	11,000	9,570	8,580	7,670	6,840	6,090	5,400	4,220	3,250	-	-	-	2.0	0.6
	KWON100M4A**	13,800	11,200	10,050	8,970	8,000	7,120	6,310	4,930	3,800	-	-	-	2.5	0.9
	KWON130E4A**	15,400	13,900	11,200	10,050	8,940	7,950	7,050	5,500	4,250	3,730	3,270	2,860	2.9	1.2
	KWON150E4A**	18,200	14,750	13,250	11,850	10,550	9,390	8,320	6,490	5,020	4,400	3,860	3,390	3.6	1.9
	KWON180E4A**	20,900	17,000	15,250	13,650	12,200	10,850	9,640	7,540	5,850	5,140	4,510	3,950	4.0	0.5
	KWON200E4A**	25,200	20,500	18,400	16,500	14,750	13,150	11,700	9,150	7,090	6,220	5,430	4,740	5.3	0.9
	KWON250E4A**	28,000	22,900	20,600	18,450	16,500	14,750	13,100	10,300	7,970	6,990	6,110	5,330	6.5	1.2
	KWON280E4A**	33,600	27,400	24,600	22,100	19,750	17,600	15,650	12,250	9,500	8,310	7,240	6,280	8.0	1.7
	KWON300E4A**	37,500	30,600	27,500	24,700	22,100	19,700	17,550	13,800	10,700	9,400	8,210	7,130	11.5	3.2
	KWON350E4A**	41,600	33,900	30,500	27,400	24,500	21,900	19,450	15,300	11,850	10,400	9,070	7,870	12.0	3.5
	KWON400E4A**	47,000	38,400	34,600	31,000	27,800	24,800	22,100	17,400	13,550	11,900	10,400	9,070	9.1	0.8
	KWON450E4A**	52,700	43,100	38,800	34,800	31,200	27,900	24,800	19,550	15,250	13,400	11,700	10,200	11.0	1.2
	KWON500E4A**	60,600	49,600	44,700	40,200	36,100	32,200	28,800	22,700	17,700	15,600	13,700	12,000	14.4	1.9
	KWON600E4A**	72,200	59,000	53,200	47,800	42,900	38,300	34,200	27,000	21,100	18,550	16,300	14,250	20.5	3.6

20°F Superheat Maximum

\* Asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

<sup>^</sup> GPM (gallons per minute) and pressure drop @ highest evap rating and 85° F entering water temperature (EWT).

DP = Differential pressure flow measurement (DP Flow)

**PERFORMANCE @ 105°F CONDENSING TEMPERATURE**

SCROLL MODELS // EXTENDED MEDIUM TEMPERATURE // R455A

Model No.		BTUH Capacity @ Suction Temperature (°F)												GPM Req. for 85° F EWT <sup>^</sup>	
		45°	35°	30°	25°	20°	15°	10°	0°	-10°	-15°	-20°	-25°	GPM GAL/ MIN	Water DP (PSI)
R455A	KWON060M4A**	10,600	8,600	7,710	6,900	6,160	5,480	4,860	3,800	2,930	-	-	-	1.5	0.4
	KWON080M4A**	12,750	10,400	9,320	8,340	7,450	6,640	5,900	4,620	3,560	-	-	-	2.0	0.6
	KWON100M4A**	14,900	12,100	10,900	9,750	8,700	7,750	6,890	5,390	4,170	-	-	-	2.5	0.9
	KWON130E4A**	16,650	15,050	12,150	10,900	9,720	8,650	7,680	6,010	4,660	4,090	3,590	3,150	2.9	1.2
	KWON150E4A**	19,600	15,950	14,350	12,850	11,450	10,200	9,050	7,070	5,480	4,820	4,240	3,740	3.6	1.9
	KWON180E4A**	22,500	18,350	16,500	14,800	13,200	11,800	10,500	8,220	6,390	5,620	4,940	4,340	4.0	0.5
	KWON200E4A**	27,100	22,100	19,900	17,850	16,000	14,250	12,700	9,990	7,770	6,820	5,960	5,200	5.3	0.9
	KWON250E4A**	30,200	24,700	22,200	19,950	17,900	16,000	14,250	11,200	8,740	7,670	6,710	5,850	6.5	1.2
	KWON280E4A**	36,100	29,500	26,600	23,800	21,400	19,100	17,000	13,400	10,400	9,110	7,950	6,900	8.0	1.7
	KWON300E4A**	40,500	33,100	29,800	26,700	23,900	21,400	19,100	15,050	11,750	10,300	9,030	7,870	11.5	3.2
	KWON350E4A**	44,800	36,700	33,000	29,700	26,600	23,800	21,200	16,750	13,050	11,450	10,000	8,700	12.0	3.5
	KWON400E4A**	50,700	41,500	37,400	33,600	30,100	26,900	24,000	19,000	14,800	13,050	11,450	9,990	9.1	0.8
	KWON450E4A**	56,900	46,500	41,900	37,700	33,800	30,200	27,000	21,300	16,650	14,650	12,850	11,200	11.0	1.2
	KWON500E4A**	65,500	53,800	48,500	43,600	39,200	35,000	31,300	24,800	19,400	17,100	15,050	13,200	14.4	1.9
	KWON600E4A**	77,900	63,900	57,700	51,900	46,600	41,700	37,200	29,500	23,100	20,300	17,850	15,650	20.5	3.6

20°F Superheat Maximum

\* Asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

<sup>^</sup> GPM (gallons per minute) and pressure drop @ highest evap rating and 85° F entering water temperature (EWT).

DP = Differential pressure flow measurement (DP Flow)

## PERFORMANCE @ 105°F CONDENSING TEMPERATURE

SCROLL MODELS // EXTENDED MEDIUM TEMPERATURE // R404A, R407A

Model No.		BTUH Capacity @ Suction Temperature (°F)												GPM Req. for 85°F EWT <sup>^</sup>	
		45°	35°	30°	25°	20°	15°	10°	0°	-10°	-15°	-20°	-25°	GPM GAL/ MIN	Water DP (PSI)
R404A	KWO060M4A**	11,250	9,120	8,170	7,280	6,470	5,720	5,040	3,880	2,990	-	-	-	2.7	1.1
	KWO080M4A**	14,100	11,200	9,980	8,860	7,860	6,950	6,130	4,700	3,470	-	-	-	3.4	1.6
	KWO100M4A**	16,350	12,850	11,400	10,100	9,000	8,010	7,120	5,580	4,180	-	-	-	3.8	2.0
	KWO130E4A**	17,350	14,550	13,000	11,650	10,400	9,250	8,220	6,450	5,020	4,420	3,880	3,390	4.3	2.2
	KWO150E4A**	20,400	17,050	15,250	13,650	12,200	10,850	9,640	7,560	5,890	5,180	4,540	3,970	5.0	3.0
	KWO180E4A**	23,600	19,800	17,750	15,850	14,150	12,600	11,200	8,790	6,840	6,020	5,280	4,620	5.8	1.0
	KWO200E4A**	28,700	24,100	21,600	19,300	17,200	15,300	13,600	10,700	8,330	7,330	6,430	5,630	7.0	1.5
	KWO250E4A**	32,200	26,900	24,200	21,600	19,300	17,150	15,250	11,950	9,330	8,200	7,200	6,300	7.8	1.8
	KWO300E4A**	43,300	36,100	32,300	28,900	25,800	23,000	20,400	16,050	12,500	11,000	9,650	8,450	10.5	2.8
	KWO350E4A**	47,500	39,800	35,600	31,900	28,400	25,300	22,500	17,650	13,750	12,100	10,650	9,300	11.6	3.3
	KWO400E4A**	54,100	45,200	40,500	36,200	32,300	28,800	25,600	20,100	15,650	13,750	12,100	10,600	13.1	1.8
	KWO450E4A**	60,400	50,500	45,200	40,400	36,100	32,100	28,600	22,400	17,450	15,350	13,500	11,800	14.6	2.2
	KWO500E4A**	67,000	55,000	49,800	44,900	40,300	36,200	32,400	25,800	20,400	18,000	15,900	14,000	17.5	3.0
	KWO600E4A**	81,500	67,000	60,500	54,500	48,800	43,800	39,200	31,300	24,800	22,000	19,500	17,200	20.8	4.1
R407A	KWO060M4A**	10,850	8,750	7,800	6,930	6,140	5,420	4,780	3,730	3,000	-	-	-	2.6	1.0
	KWO080M4A**	12,650	10,450	9,440	8,480	7,580	6,730	5,940	4,510	3,290	-	-	-	3.2	1.4
	KWO100M4A**	14,150	11,950	10,900	9,910	8,950	8,020	7,120	5,440	3,870	-	-	-	3.7	1.8
	KWO130E4A**	16,600	13,450	12,050	10,850	9,720	8,710	7,810	6,220	4,860	4,220	3,610	-	4.1	2.1
	KWO150E4A**	19,800	16,050	14,400	12,950	11,600	10,400	9,320	7,430	5,800	5,050	4,320	-	4.9	2.9
	KWO180E4A**	22,600	18,300	16,450	14,750	13,250	11,900	10,650	8,480	6,620	5,760	4,930	-	5.7	1.0
	KWO200E4A**	27,600	22,400	20,000	17,900	15,950	14,150	12,550	9,700	7,310	6,250	5,260	-	6.8	1.4
	KWO250E4A**	30,800	24,900	22,400	20,100	18,050	16,150	14,500	11,550	9,020	7,850	6,710	-	7.6	1.7
	KWO300E4A**	40,600	32,900	29,500	26,500	23,800	21,300	19,100	15,250	11,900	10,350	8,860	-	10	2.6
	KWO350E4A**	46,100	37,300	33,500	29,900	26,700	23,700	20,900	16,100	12,050	10,200	8,490	-	11.3	3.2
	KWO400E4A**	50,600	40,900	36,800	33,000	29,600	26,600	23,800	18,950	14,800	12,900	11,050	-	12.5	1.7
	KWO450E4A**	57,500	46,500	41,800	37,500	33,700	30,200	27,100	21,600	16,850	14,650	12,550	-	14.2	2.1
	KWO500E4A**	62,100	52,000	47,200	42,600	38,300	34,200	30,400	23,600	17,900	15,550	13,500	-	16.1	2.6
	KWO600E4A**	76,500	63,800	57,900	52,300	47,000	42,100	37,400	29,100	22,200	19,350	16,750	-	19.5	3.6

20°F Superheat Maximum

\* Asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

<sup>^</sup> GPM (gallons per minute) and pressure drop @ highest evap rating and 85° F entering water temperature (EWT).

DP = Differential pressure flow measurement (DP Flow)

**PERFORMANCE @ 105°F CONDENSING TEMPERATURE**

SCROLL MODELS // EXTENDED MEDIUM TEMPERATURE // R407C, R448A, R449A

Model No.		BTUH Capacity @ Suction Temperature (°F)												GPM Req. for 85° F EWT <sup>^</sup>	
		45°	35°	30°	25°	20°	15°	10°	0°	-10°	-15°	-20°	-25°	GPM GAL/ MIN	Water DP (PSI)
R407C	KWO060M4A**	10,200	8,230	7,370	6,570	5,830	5,150	4,530	3,410	2,420	-	-	-	2.5	1.0
	KWO080M4A**	12,150	9,860	8,840	7,890	7,010	6,190	5,450	4,130	3,030	-	-	-	3.1	1.3
	KWO100M4A**	14,213	11,531	10,337	9,224	8,196	7,237	6,371	4,827	3,541	-	-	-	3.6	1.7
	KWO130E4A**	16,100	13,250	11,950	10,700	9,570	8,490	7,470	5,570	3,780	-	-	-	4.0	2.1
	KWO150E4A**	19,200	15,800	14,250	12,800	11,450	10,150	8,920	6,660	4,530	-	-	-	4.7	2.8
	KWO180E4A**	21,900	18,050	16,250	14,600	13,050	11,600	10,200	7,600	5,170	-	-	-	5.4	0.9
	KWO200E4A**	26,400	21,700	19,600	17,600	15,750	13,950	12,300	9,180	6,260	-	-	-	6.5	1.2
	KWO250E4A**	29,800	24,500	22,100	19,850	17,750	15,750	13,850	10,350	7,060	-	-	-	7.3	1.5
	KWO300E4A**	40,100	32,900	29,700	26,700	23,800	21,200	18,650	13,950	9,510	-	-	-	9.6	2.2
	KWO350E4A**	44,500	36,600	33,000	29,600	26,500	23,500	20,700	15,450	10,550	-	-	-	10.6	2.6
	KWO400E4A**	49,800	41,000	37,000	33,200	29,700	26,300	23,200	17,300	11,800	-	-	-	11.9	1.4
	KWO450E4A**	55,200	45,400	41,000	36,800	32,900	29,200	25,700	19,150	13,050	-	-	-	13.2	1.7
	KWO500E4A**	64,400	54,100	49,200	44,600	40,200	36,000	32,000	25,000	19,100	-	-	-	16.5	2.4
	KWO600E4A**	78,100	65,400	59,400	53,800	48,500	43,400	38,700	30,300	23,200	-	-	-	19.7	3.3
R448A, R449A	KWO060M4A**	10,800	8,880	8,000	7,180	6,410	5,710	5,050	3,920	3,010	-	-	-	2.7	1.1
	KWO080M4A**	13,050	10,650	9,580	8,580	7,650	6,790	6,010	4,650	3,590	-	-	-	3.2	1.5
	KWO100M4A**	15,500	12,600	11,300	10,100	9,010	7,990	7,070	5,500	4,300	-	-	-	3.7	1.9
	KWO130E4A**	17,450	15,750	12,500	11,150	9,980	8,950	8,050	7,240	5,850	4,600	3,970	-	4.0	2.0
	KWO150E4A**	18,950	15,050	13,400	12,000	10,800	9,690	8,720	7,040	5,530	4,780	4,000	-	4.8	2.7
	KWO180E4A**	21,600	17,150	15,300	13,700	12,300	11,050	9,930	8,020	6,310	5,450	4,550	-	5.5	0.9
	KWO200E4A**	26,100	20,700	18,500	16,550	14,850	13,350	12,000	9,700	7,630	6,590	5,510	-	6.6	1.3
	KWO250E4A**	29,300	23,300	20,800	18,600	16,650	15,000	13,500	10,900	8,560	7,400	6,190	-	7.4	1.6
	KWO300E4A**	40,600	33,400	30,200	27,300	24,500	21,900	19,550	15,250	11,500	9,750	8,110	-	10.1	2.7
	KWO350E4A**	45,000	36,600	32,800	29,400	26,200	23,300	20,700	16,200	12,750	11,400	10,300	-	11.2	3.2
	KWO400E4A**	51,500	42,400	38,400	34,600	31,100	27,800	24,800	19,350	14,600	12,400	10,300	-	12.7	1.7
	KWO450E4A**	56,800	46,800	42,300	38,200	34,300	30,700	27,400	21,300	16,050	13,650	11,350	-	14.1	2.0
	KWO500E4A**	62,670	52,100	47,250	42,680	38,490	34,550	30,940	24,530	19,110	16,810	14,740	-	16.3	2.4
	KWO600E4A**	77,130	63,880	57,910	52,350	47,170	42,450	37,980	30,160	23,660	20,930	18,350	-	19.7	3.3

20°F Superheat Maximum

\* Asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

<sup>^</sup> GPM (gallons per minute) and pressure drop @ highest evap rating and 85° F entering water temperature (EWT).

DP = Differential pressure flow measurement (DP Flow)

## PERFORMANCE @ 105°F CONDENSING TEMPERATURE

SCROLL MODELS // LOW TEMPERATURE // R454A, R454C

Model No.		BTUH Capacity @ Suction Temperature (°F)									GPM Req. for 85°F EWT <sup>^</sup>	
		0°	-5°	-10°	-15°	-20°	-25°	-30°	-35°	-40°	GPM GAL/ MIN	Water DP (PSI)
R454A	KWON100L4A**	4,750	4,190	3,680	3,230	2,820	2,470	2,160	1,885	1,655	0.5	0.1
	KWON130L4A**	6,350	5,600	4,920	4,310	3,770	3,280	2,850	2,480	2,150	0.8	0.1
	KWON160L4A**	7,450	6,580	5,790	5,080	4,450	3,880	3,380	2,940	2,540	1.0	0.2
	KWON230L4A**	11,650	10,300	9,100	8,000	7,020	6,140	5,360	4,660	4,030	1.8	0.5
	KWON250L4A**	13,350	11,850	10,500	9,290	8,190	7,200	6,300	5,490	4,760	2.2	0.7
	KWON300L4A**	14,950	13,250	11,750	10,400	9,160	8,050	7,050	6,140	5,320	2.6	1.0
	KWON350L4A**	18,600	16,500	14,650	12,950	11,450	10,050	8,810	7,680	6,660	3.7	1.9
	KWON400L4A**	21,800	19,350	17,350	15,200	13,400	11,800	10,350	9,010	7,810	3.9	0.5
	KWON500L4A**	26,900	23,900	21,200	18,750	16,550	14,550	12,750	11,150	9,660	5.3	1
KWON600L4A**	31,900	28,300	25,100	22,200	19,550	17,200	15,050	13,150	11,400	7.1	1.5	
R454C	KWON100L4A**	4,020	3,530	3,090	2,700	2,350	2,050	1,780	1,550	1,355	0.5	0.1
	KWON130L4A**	5,380	4,730	4,140	3,610	3,150	2,730	2,370	2,050	1,775	0.8	0.1
	KWON160L4A**	6,350	5,590	4,890	4,280	3,730	3,240	2,810	2,430	2,100	1.0	0.2
	KWON230L4A**	9,970	8,770	7,700	6,730	5,880	5,120	4,440	3,850	3,340	1.8	0.5
	KWON250L4A**	11,350	10,050	8,870	7,810	6,860	6,000	5,230	4,540	3,920	2.2	0.7
	KWON300L4A**	12,650	11,200	9,900	8,720	7,660	6,700	5,840	5,060	4,360	2.6	1.0
	KWON350L4A**	15,750	13,950	12,350	10,900	9,570	8,380	7,310	6,350	5,470	3.7	1.9
	KWON400L4A**	18,400	16,300	14,400	12,700	11,150	9,770	8,520	7,390	6,370	3.9	0.5
	KWON500L4A**	22,800	20,200	17,800	15,700	13,800	12,100	10,550	9,160	7,900	5.3	0.9
	KWON600L4A**	27,100	24,000	21,200	18,650	16,400	14,350	12,550	10,900	9,400	7.1	1.5

\* Asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

<sup>^</sup> GPM (gallons per minute) and pressure drop @ highest evap rating and 85° F entering water temperature (EWT).

DP = Differential pressure flow measurement (DP Flow)

**PERFORMANCE @ 105° F CONDENSING TEMPERATURE**

SCROLL MODELS // LOW TEMPERATURE // R455A

Model No.	BTUH Capacity @ Suction Temperature (°F)										GPM Req. for 85° F EWT <sup>^</sup>	
	0°	-5°	-10°	-15°	-20°	-25°	-30°	-35°	-40°	GPM GAL/ MIN	Water DP (PSI)	
R455A	KWON100L4A**	4,410	3,880	3,400	2,970	2,590	2,250	1,965	1,715	1,500	0.5	0.1
	KWON130L4A**	5,890	5,190	4,550	3,970	3,460	3,010	2,610	2,270	1,975	0.8	0.1
	KWON160L4A**	6,930	6,100	5,350	4,690	4,090	3,560	3,100	2,690	2,330	1.0	0.2
	KWON230L4A**	10,850	9,570	8,410	7,370	6,450	5,630	4,900	4,250	3,680	1.8	0.5
	KWON250L4A**	12,350	10,950	9,690	8,550	7,510	6,590	5,750	5,000	4,320	2.2	0.7
	KWON300L4A**	13,800	12,250	10,850	9,550	8,400	7,360	6,420	5,570	4,800	2.6	1.0
	KWON350L4A**	17,150	15,250	13,500	11,900	10,500	9,190	8,030	6,980	6,030	3.7	1.9
	KWON400L4A**	19,950	17,700	15,650	13,800	12,150	10,600	9,270	8,050	6,940	3.9	0.5
	KWON500L4A**	24,700	21,900	19,350	17,050	15,000	13,150	11,500	9,980	8,610	5.3	0.9
	KWON600L4A**	29,500	26,100	23,100	20,400	17,950	15,750	13,750	12,000	10,350	7.1	1.5

\* Asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

<sup>^</sup> GPM (gallons per minute) and pressure drop @ highest evap rating and 85° F entering water temperature (EWT).

DP = Differential pressure flow measurement (DP Flow)

**PERFORMANCE @ 105°F CONDENSING TEMPERATURE**

SCROLL MODELS // LOW TEMPERATURE // R404A, R407A

Model No.		BTUH Capacity @ Suction Temperature (°F)									GPM Req. for 85°F EWT <sup>^</sup>	
		0°	-5°	-10°	-15°	-20°	-25°	-30°	-35°	-40°	GPM GAL/ MIN	Water DP (PSI)
R404A	KWO100L4A**	4,650	3,980	3,480	3,040	2,660	2,340	2,060	1,820	1,620	1.6	0.5
	KWO130L4A**	6,320	5,520	4,800	4,160	3,590	3,100	2,680	2,340	2,070	2.1	0.7
	KWO160L4A**	7,570	6,680	5,860	5,120	4,450	3,850	3,320	2,870	2,480	2.4	0.9
	KWO230L4A**	11,850	10,450	9,190	8,080	7,080	6,170	5,340	4,550	3,780	3.8	1.9
	KWO250L4A**	13,600	12,100	10,800	9,530	8,410	7,400	6,480	5,640	4,880	4.4	2.3
	KWO300L4A**	15,100	13,400	11,900	10,600	9,360	8,240	7,230	6,300	5,440	4.7	2.6
	KWO350L4A**	18,800	16,800	14,900	13,200	11,600	10,200	8,980	7,820	6,770	5.9	3.9
	KWO400L4A**	21,900	19,400	17,200	15,100	13,200	11,500	9,980	8,590	7,340	6.8	1.4
	KWO500L4A**	26,600	23,700	21,000	18,600	16,400	14,400	12,600	11,000	9,560	8.3	2
R407A	KWO100L4A**	4,190	3,690	3,250	2,860	2,530	2,240	1,985	1,765	1,565	1.6	0.5
	KWO130L4A**	5,920	5,160	4,480	3,870	3,340	2,880	2,500	2,190	1,950	1.9	0.6
	KWO160L4A**	7,010	6,130	5,330	4,610	3,970	3,410	2,930	2,530	2,200	2.1	0.7
	KWO230L4A**	10,850	9,590	8,460	7,450	6,540	5,720	4,970	4,270	3,590	3.4	1.6
	KWO250L4A**	12,200	10,800	9,560	8,400	7,340	6,380	5,520	4,750	4,060	4.0	2.1
	KWO300L4A**	13,550	11,750	10,200	8,810	7,610	6,560	5,630	4,810	4,070	4.3	2.2
	KWO350L4A**	16,950	14,700	12,750	11,000	9,480	8,160	7,000	5,980	5,080	5.3	3.3
	KWO400L4A**	20,400	18,050	15,850	13,800	11,900	10,200	8,740	7,560	6,700	6.3	1.2
	KWO500L4A**	24,800	22,100	19,450	17,000	14,800	12,850	11,150	9,790	8,770	7.6	1.7
KWO600L4A**	29,100	25,700	22,700	19,800	17,300	15,000	13,100	11,500	10,300	9.0	2.4	

\* Asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

<sup>^</sup> GPM (gallons per minute) and pressure drop @ highest evap rating and 85° F entering water temperature (EWT).

DP = Differential pressure flow measurement (DP Flow)

**PERFORMANCE @ 105° F CONDENSING TEMPERATURE**

SCROLL MODELS // LOW TEMPERATURE // R407C, R448A, R449A

Model No.		BTUH Capacity @ Suction Temperature (°F)									GPM Req. for 85° F EWT <sup>^</sup>	
		0°	-5°	-10°	-15°	-20°	-25°	-30°	-35°	-40°	GPM GAL/ MIN	Water DP (PSI)
R407C	KWO100L4A**	4,000	3,520	3,100	2,740	2,430	2,160	1,925	1,725	1,550	1.4	0.4
	KWO130L4A**	5,570	4,870	4,230	3,660	3,160	2,730	2,370	2,080	1,860	1.8	0.6
	KWO160L4A**	6,640	5,820	5,060	4,380	3,780	3,250	2,790	2,410	2,100	2.2	0.7
	KWO230L4A**	10,100	8,850	7,800	6,890	6,100	5,380	4,700	4,010	3,280	3.2	1.5
	KWO250L4A**	11,460	10,090	8,910	7,830	6,840	5,950	5,150	4,420	3,730	3.7	1.9
	KWO300L4A**	13,000	11,300	9,770	8,450	7,290	6,280	5,390	4,600	3,890	4.1	2.0
	KWO350L4A**	16,200	14,100	12,200	10,500	9,080	7,810	6,700	5,730	4,860	5.1	3.1
	KWO400L4A**	19,550	17,350	15,200	13,200	11,400	9,750	8,350	7,240	6,440	6.0	1.1
	KWO500L4A**	23,800	21,100	18,600	16,300	14,200	12,300	10,600	9,350	8,400	7.4	1.6
	KWO600L4A**	27,400	24,300	21,400	18,700	16,300	14,200	12,300	10,900	9,840	8.5	2.1
R448A, R449A	KWO100L4A**	4,420	3,890	3,430	3,030	2,690	2,380	2,110	1,865	1,635	1.5	0.4
	KWO130L4A**	6,160	5,410	4,720	4,100	3,550	3,070	2,660	2,310	2,040	1.9	0.6
	KWO160L4A**	7,290	6,430	5,630	4,910	4,250	3,670	3,160	2,720	2,350	2.1	0.7
	KWO230L4A**	11,050	9,750	8,590	7,570	6,670	5,870	5,130	4,440	3,770	3.5	1.6
	KWO250L4A**	12,800	11,350	10,050	8,840	7,760	6,780	5,900	5,110	4,400	4.0	2.0
	KWO300L4A**	14,150	12,550	11,150	9,830	8,660	7,590	6,630	5,760	4,970	4.4	2.3
	KWO350L4A**	17,700	15,700	13,900	12,250	10,750	9,440	8,240	7,160	6,200	5.4	3.4
	KWO400L4A**	20,900	18,500	16,300	14,200	12,400	10,800	9,390	8,170	7,140	6.5	1.3
	KWO500L4A**	25,700	22,700	20,100	17,600	15,500	13,500	11,800	10,300	9,050	8.0	1.9
	KWO600L4A**	30,800	27,300	24,200	21,300	18,800	16,500	14,400	12,600	11,000	9.6	2.6

\* Asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

<sup>^</sup> GPM (gallons per minute) and pressure drop @ highest evap rating and 85° F entering water temperature (EWT).

DP = Differential pressure flow measurement (DP Flow)

**ELECTRICAL DATA // ALL MODELS**

Model No.	Compressor Model No.	Compressor					
		208-230V/1/60		208-230V/3/60		460V/3/60 Hz	
		RLA	LRA	RLA	LRA	RLA	LRA

**EXTENDED MEDIUM TEMPERATURE SCROLL**

KWON060M4A**	YB06KAE	5.4	35.7	4.3	37.8	-	-
KWON080M4A**	YB07KAE	5.6	48.0	4.7	37.8	-	-
KWON100M4A**	YB08KAE	7.2	47.2	4.7	37.8	-	-
KWON130E4A**	YS09KAE	9.0	40.3	7.2	55.4	3.4	27.0
KWON150E4A**	YS11KAE	11.3	55.0	9.3	58.0	3.8	28.0
KWON180E4A**	YS12KAE	10.8	56.0	8.7	58.0	4.3	29.0
KWON200E4A**	YS14KAE	14.1	68.0	9.6	58.0	4.8	29.0
KWON250E4A**	YS16KAE	16.2	75.0	12.3	73.0	5.8	38.0
KWON280E4A**	YS19KAE	17.8	88.0	10.8	76.9	4.9	41.6
KWON300E4A**	YS21KAE	20.8	112.0	13.7	93.0	6.2	48.0
KWON350E4A**	YS24KAE	21.2	104.0	13.9	93.0	6.2	48.0
KWON400E4A**	YS26KAE	23.4	137.0	18.4	114.0	8.4	58.0
KWON450E4A**	YS30KAE	23.0	146.0	20.0	114.0	9.0	52.0
KWON500E4A**	YS33KAE	28.5	169.0	19.2	123.0	8.7	62.0
KWON600E4A**	YS40KAE	-	-	21.5	156.0	8.3	75.0

**LOW TEMPERATURE SCROLL**

KWON100L4A**	YF03KAE	5.4	42.3	3.7	31.7	-	-
KWON130L4A**	YF04KAE	6.6	40.3	6	55.4	-	-
KWON160L4A**	YF05KAE	7.8	55	6.6	58	-	-
KWON230L4A**	YF07KAE	12.4	75	7.8	58	3.6	28.0
KWON250L4A**	YF06KSE	14.7	73	8.7	63	4.5	31.0
KWON300L4A**	YF07KSE	12.8	88	8.7	83	4.5	39.0
KWON350L4A**	YF09KSE	16.3	109	10.9	88	5.8	44.0
KWON400L4A**	YF10KAE	22.4	129	11.9	99	6.4	49.5
KWON500L4A**	YF13KAE	24.7	169	17	123	8.0	62.0
KWON600L4A**	YF15KAE	-	-	19.6	156	8.0	75.0

\* Asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

**RLA** = Rated Load Amps      **LRA** = Locked Rotor Amps      **MCA** = Minimum Circuit Ampacity

MCA includes 1 amp allowance for control circuit requirement.

## AIR DEFROST DATA // ALL MODELS

Model No.	Comp. Model No.	208-230V/1/60				208-230V/3/60				460V/3/60 Hz			
		Air Defrost		Max Evap. Fan AMPS <sup>†</sup>	Max Def. AMPS <sup>†</sup>	Air Defrost		Max Evap. Fan AMPS <sup>†</sup>	Max Def. AMPS <sup>†</sup>	Air Defrost		Max Evap. Fan AMPS <sup>†</sup>	Max Def. AMPS <sup>†</sup>
		MCA	MOPD			MCA	MOPD			MCA	MOPD		

### EXTENDED MEDIUM TEMPERATURE SCROLL

KWON060M4A**	YB06KAE	15.0	15	4.0	15.0	15.0	15	4.0	15.0	-	-	-	-
KWON080M4A**	YB07KAE	15.0	15	4.0	15.0	15.0	15	4.0	15.0	-	-	-	-
KWON100M4A**	YB08KAE	15.0	15	4.0	15.0	15.0	15	4.0	15.0	-	-	-	-
KWON130E4A**	YS09KAE	15.0	20	4.0	15.0	15.0	15	4.0	15.0	15.0	15	2.0	15.0
KWON150E4A**	YS11KAE	15.1	25	6.0	20.0	15.0	20	6.0	15.0	15.0	15	3.0	15.0
KWON180E4A**	YS12KAE	14.5	25	6.0	20.0	15.0	20	6.0	15.0	15.0	15	3.0	15.0
KWON200E4A**	YS14KAE	18.6	30	10.0	25.0	15.0	20	10.0	20.0	15.0	15	5.0	15.0
KWON250E4A**	YS16KAE	21.2	35	10.0	25.0	16.3	25	10.0	25.0	15.0	15	5.0	15.0
KWON280E4A**	YS19KAE	23.3	40	12.0	30.0	15.0	25	12.0	25.0	15.0	15	6.0	15.0
KWON300E4A**	YS21KAE	27.0	45	12.0	30.0	18.1	30	12.0	25.0	15.0	15	6.0	15.0
KWON350E4A**	YS24KAE	27.5	45	12.0	30.0	18.3	30	12.0	25.0	15.0	15	6.0	15.0
KWON400E4A**	YS26KAE	30.2	50	12.0	30.0	24.0	40	12.0	30.0	15.0	15	6.0	15.0
KWON450E4A**	YS30KAE	29.7	50	12.0	30.0	26.0	45	12.0	30.0	15.0	20	6.0	20.0
KWON500E4A**	YS33KAE	36.6	60	12.0	30.0	25.0	40	12.0	30.0	15.0	20	6.0	20.0
KWON600E4A**	YS40KAE	-	-	-	-	27.8	45	12.0	30.0	15.0	20	6.0	20.0

\* Each asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

**MCA** = Minimum Circuit Ampacity      **MOPD** = Maximum Overcurrent Protection

MCA includes 1 amp allowance for control circuit requirement.

<sup>†</sup> Maximum Evap. fan amps and maximum defrost amps are shown to provide ratings when electric defrost is required and is an optional feature. Maximum Amp value used to determine MOPD. Exceeding these values invalidates the listed MOPD and requires a revised calculation. Contact Application Engineering when amp draw requirements deviate from the chart values.

**ELECTRICAL DEFROST DATA // ALL MODELS**

Model No.	Comp. Model	208-230V/1/60 HZ					208-230V/3/60 HZ					460V/3/60 HZ				
		MCA	MOPD	Elec. Def. Kit <sup>†</sup>	Max Evap. Fan Amps <sup>†</sup>	Max Def. Amps <sup>†</sup>	MCA	MOPD	Elec. Def. Kit <sup>†</sup>	Max Evap. Fan Amps <sup>†</sup>	Max Def. Amps <sup>†</sup>	MCA	MOPD	Elec. Def. Kit <sup>†</sup>	Max Evap. Fan Amps <sup>†</sup>	Max Def. Amps <sup>†</sup>

**EXTENDED MEDIUM TEMPERATURE SCROLL**

KWON060M4A**	YB06KAE	19.7	20	ED-5	4.0	15.0	19.7	20	ED-5	4.0	15.0	-	-	-	-	-
KWON080M4A**	YB07KAE	19.7	20	ED-5	4.0	15.0	19.7	20	ED-5	4.0	15.0	-	-	-	-	-
KWON100M4A**	YB08KAE	19.7	20	ED-5	4.0	15.0	19.7	20	ED-5	4.0	15.0	-	-	-	-	-
KWON130E4A**	YS09KAE	19.7	25	ED-5	4.0	15.0	19.7	20	ED-5	4.0	15.0	19.7	20	ED-17	2.0	15.0
KWON150E4A**	YS11KAE	26.0	30	ED-6	6.0	20.0	19.7	25	ED-5	6.0	15.0	19.7	20	ED-17	3.0	15.0
KWON180E4A**	YS12KAE	26.0	30	ED-6	6.0	20.0	19.7	25	ED-5	6.0	15.0	19.7	20	ED-17	3.0	15.0
KWON200E4A**	YS14KAE	32.2	40	ED-7	10.0	25.0	26.0	30	ED-6	10.0	20.0	19.7	20	ED-17	5.0	15.0
KWON250E4A**	YS16KAE	32.2	45	ED-7	10.0	25.0	32.2	35	ED-7	10.0	25.0	19.7	20	ED-17	5.0	15.0
KWON280E4A**	YS19KAE	38.5	50	ED-10	12.0	30.0	32.2	35	ED-7	12.0	25.0	19.7	20	ED-17	6.0	15.0
KWON300E4A**	YS21KAE	39.0	50	ED-10	12.0	30.0	32.2	40	ED-7	12.0	25.0	19.7	20	ED-17	6.0	15.0
KWON350E4A**	YS24KAE	39.5	60	ED-10	12.0	30.0	32.2	40	ED-7	12.0	25.0	19.7	20	ED-17	6.0	15.0
KWON400E4A**	YS26KAE	42.2	60	ED-10	12.0	30.0	38.5	50	ED-11	12.0	30.0	19.7	25	ED-17	6.0	15.0
KWON450E4A**	YS30KAE	41.7	60	ED-10	12.0	30.0	38.5	50	ED-11	12.0	30.0	26.0	30	ED-18	6.0	20.0
KWON500E4A**	YS33KAE	48.6	60	ED-10	12.0	30.0	38.5	50	ED-11	12.0	30.0	26.0	30	ED-18	6.0	20.0
KWON600E4A**	YS40KAE	-	-	-	-	-	39.8	60	ED-11	12.0	30.0	26.0	30	ED-18	6.0	20.0

**LOW TEMPERATURE SCROLL**

KWON100L4A**	YF03KAE	19.7	20	ED-5	6	15	19.7	20	ED-5	6	15	-	-	-	-	-
KWON130L4A**	YF04KAE	19.7	20	ED-5	6	15	19.7	20	ED-5	6	15	-	-	-	-	-
KWON160L4A**	YF05KAE	19.7	20	ED-5	6	15	19.7	20	ED-5	6	15	-	-	-	-	-
KWON230L4A**	YF07KAE	19.7	30	ED-5	6	15	19.7	20	ED-5	6	15	19.7	20	ED-17	5	15
KWON250L4A**	YF06KSE	29.4	40	ED-6	10	20	26	30	ED-6	10	20	19.7	20	ED-17	5	15
KWON300L4A**	YF07KSE	27	35	ED-6	10	20	26	30	ED-6	10	20	19.7	20	ED-17	5	15
KWON350L4A**	YF09KSE	32.2	45	ED-7	10	25	32.2	35	ED-7	10	25	19.7	20	ED-17	5	15
KWON400L4A**	YF10KAE	41	60	ED-7	12	25	32.2	35	ED-7	12	25	19.7	20	ED-17	6	15
KWON500L4A**	YF13KAE	43.9	60	ED-11	12	30	38.5	50	ED-11	12	30	19.7	25	ED-17	6	15
KWON600L4A**	YF15KAE	-	-	-	-	-	38.5	50	ED-11	12	30	19.7	25	ED-17	6	15

\* Each asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

**MCA** = Minimum Circuit Ampacity      **MOPD** = Maximum Overcurrent Protection

MCA includes 1 amp allowance for control circuit requirement.

<sup>†</sup> Maximum Evap. fan amps and maximum defrost amps are shown to provide ratings when electric defrost is required and is an optional feature. Maximum Amp value used to determine MOPD. Exceeding these values invalidates the listed MOPD and requires a revised calculation. Contact Application Engineering when amp draw requirements deviate from the chart values.

## SPECIFICATIONS // ALL MODELS

Model No.	Comp. Model No.	HP	Connections (ODS)			Pump Down Capacity						
			Liquid	Suction <sup>^^</sup>	Water (OD)	Standard Receiver						
						90% R404A (lbs.)	90% R407A (lbs.)	90% R407C (lbs.)	90% R448A, R449A (lbs.)	90% R454A (lbs.)	90% R454C (lbs.)	90% R455A (lbs.)

### EXTENDED MEDIUM TEMPERATURE SCROLL

KWON060M4A**	YB06KAE	1/2	3/8	5/8	3/4	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON080M4A**	YB07KAE	1/2	3/8	5/8	3/4	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON100M4A**	YB08KAE	1	3/8	5/8	3/4	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON130E4A**	YS09KAE	1-1/3	3/8	5/8	3/4	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON150E4A**	YS11KAE	1-1/2	1/2	7/8	3/4	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON180E4A**	YS12KAE	1-3/4	1/2	7/8	7/8	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON200E4A**	YS14KAE	2	1/2	7/8	7/8	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON250E4A**	YS16KAE	2-1/2	1/2	7/8	7/8	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON280E4A**	YS19KAE	2-3/4	5/8	1-1/8	1-1/8	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON300E4A**	YS21KAE	3	5/8	1-1/8	1-1/8	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON350E4A**	YS24KAE	3-1/2	5/8	1-1/8	1-1/8	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON400E4A**	YS26KAE	4	5/8	1-1/8	2-1/8	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON450E4A**	YS30KAE	4-1/2	5/8	1-1/8	2-1/8	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON500E4A**	YS33KAE	5	5/8	1-1/8	2-1/8	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON600E4A**	YS40KAE	6	5/8	1-1/8	2-1/8	5.8	6.4	6.3	6.1	5.7	5.8	5.7

### LOW TEMPERATURE SCROLL

KWON100L4A**	YF03KAE	1	3/8	7/8	3/4	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON130L4A**	YF04KAE	1-1/3	3/8	7/8	3/4	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON160L4A**	YF05KAE	1-1/2	3/8	7/8	3/4	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON230L4A**	YF07KAE	2	3/8	7/8	3/4	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON250L4A**	YF06KSE	2-1/2	3/8	7/8	3/4	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON300L4A**	YF07KSE	3	3/8	7/8	3/4	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON350L4A**	YF09KSE	3-1/2	3/8	7/8	3/4	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON400L4A**	YF10KAE	4	1/2	1-1/8	7/8	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON500L4A**	YF13KAE	5	1/2	1-1/8	7/8	5.8	6.4	6.3	6.1	5.7	5.8	5.7
KWON600L4A**	YF15KAE	6	1/2	1-1/8	7/8	5.8	6.4	6.3	6.1	5.7	5.8	5.7

\* Each asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

<sup>^^</sup> Connection size with or without factory installed liquid and/or suction line assembly.

## SPECIFICATIONS // ALL MODELS

Model No.	Comp. Model No.	Cabinet Size <sup>††</sup>	Dimensions (in.)			Approx. Ship WT. (lbs.)	Sound Data dBA <sup>†</sup>
			D	W	H		

### EXTENDED MEDIUM TEMPERATURE SCROLL<sup>^^</sup>

KWON060M4A**	YB06KAE	FW1	28-1/16	27-1/8	18-5/8	195	67
KWON080M4A**	YB07KAE	FW1	28-1/16	27-1/8	18-5/8	195	67
KWON100M4A**	YB08KAE	FW1	28-1/16	27-1/8	18-5/8	195	67
KWON130E4A**	YS09KAE	FW1	28-1/16	27-1/8	18-5/8	195	67
KWON150E4A**	YS11KAE	FW2	28-1/16	39-1/8	19-7/8	205	68
KWON180E4A**	YS12KAE	FW2	28-1/16	39-1/8	19-7/8	210	68
KWON200E4A**	YS14KAE	FW3	28-1/16	39-1/8	21-1/8	215	68
KWON250E4A**	YS16KAE	FW3	28-1/16	39-1/8	21-1/8	230	69
KWON280E4A**	YS19KAE	FW4	32-13/16	43-1/8	21-1/8 <sup>^</sup>	305	69
KWON300E4A**	YS21KAE	FW4	32-13/16	43-1/8	21-1/8 <sup>^</sup>	305	69
KWON350E4A**	YS24KAE	FW4	32-13/16	43-1/8	21-1/8 <sup>^</sup>	325	69
KWON400E4A**	YS26KAE	FW4	32-13/16	43-1/8	21-1/8 <sup>^</sup>	352	71
KWON450E4A**	YS30KAE	FW4	32-13/16	43-1/8	21-1/8 <sup>^</sup>	375	71
KWON500E4A**	YS33KAE	FW4	32-13/16	43-1/8	21-1/8 <sup>^</sup>	383	71
KWON600E4A**	YS40KAE	FW4	32-13/16	43-1/8	21-1/8 <sup>^</sup>	405	73

### LOW TEMPERATURE SCROLL

KWON100L4A**	YF03KAE	FW2	28-1/16	39-1/8	19-7/8	230	68
KWON130L4A**	YF04KAE	FW2	28-1/16	39-1/8	19-7/8	230	68
KWON160L4A**	YF05KAE	FW2	28-1/16	39-1/8	19-7/8	230	68
KWON230L4A**	YF07KAE	FW2	28-1/16	39-1/8	19-7/8	230	68
KWON250L4A**	YF06KSE	FW3	28-1/16	39-1/8	21-1/8	240	70
KWON300L4A**	YF07KSE	FW3	28-1/16	39-1/8	21-1/8	245	70
KWON350L4A**	YF09KSE	FW3	28-1/16	39-1/8	21-1/8	255	70
KWON400L4A**	YF10KAE	FW4	32-13/16	43-1/8	21-1/8 <sup>^</sup>	352	70
KWON500L4A**	YF13KAE	FW4	32-13/16	43-1/8	21-1/8 <sup>^</sup>	367	71
KWON600L4A**	YF15KAE	FW4	32-13/16	43-1/8	21-1/8 <sup>^</sup>	383	73

\* Each asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

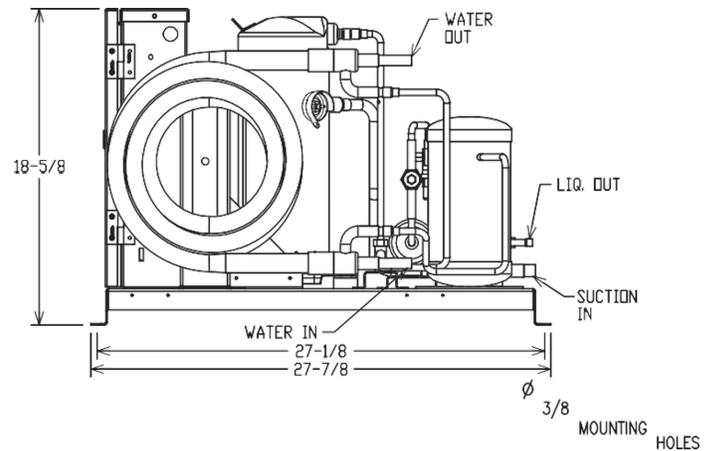
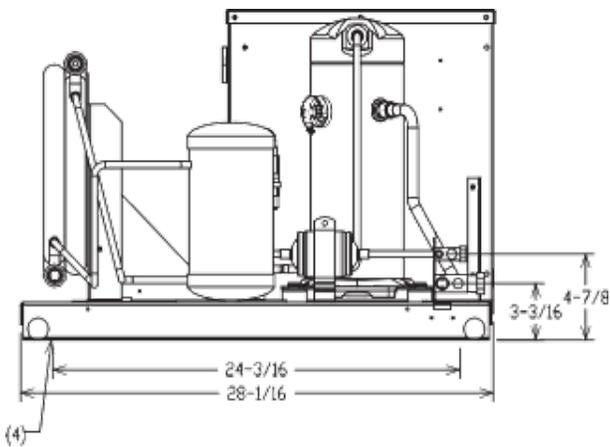
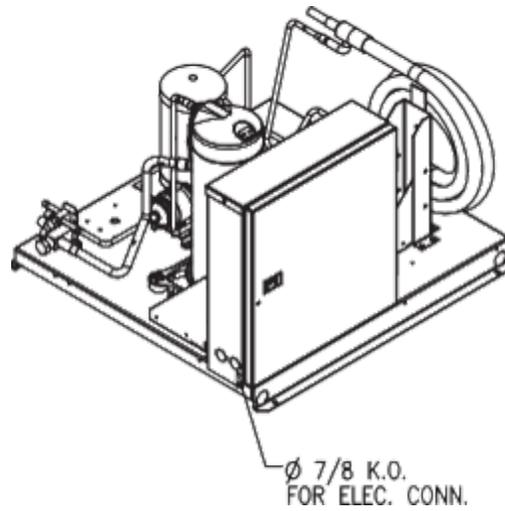
<sup>†</sup>Estimated dBA values at 10 feet from the unit. Correction factors: Deduct 6 dBA for 20 to 40 feet, 12 dBA @ 40 to 60 feet. Ratings at the outlet of the discharge air. The actual measurements may vary depending upon installation variables. Environmental factors may have a significant influence on this data.

<sup>††</sup> See pages 14-17 for associated drawings.

<sup>^</sup> Maximum height is 35" when using a two defrost contactor kit or replaceable core liquid and suction filters.

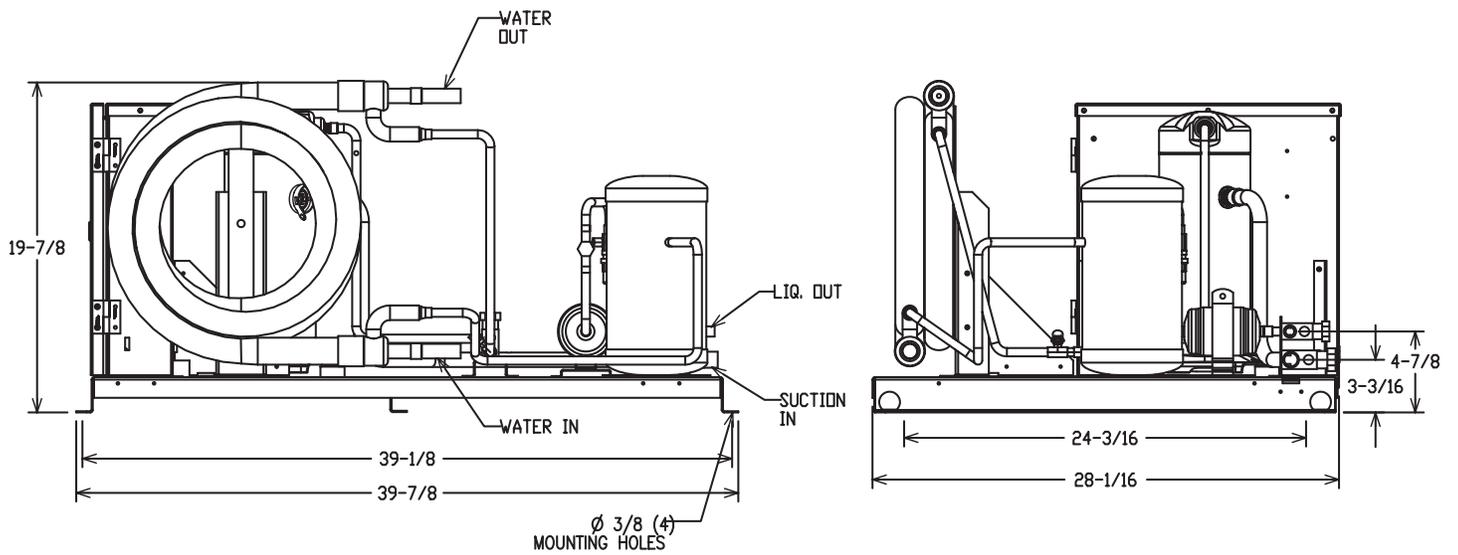
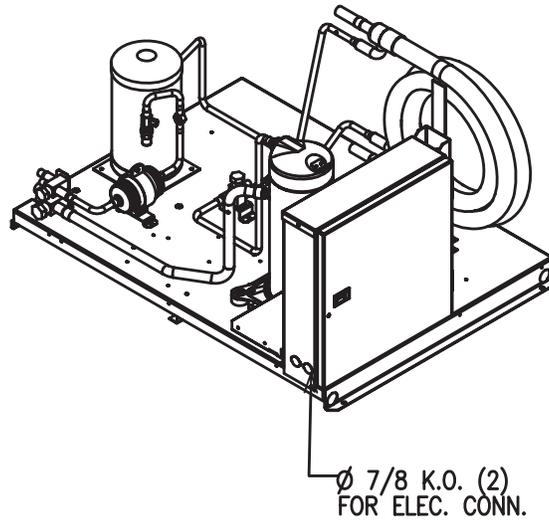
DIMENSIONAL DRAWINGS

Figure 1: FW1



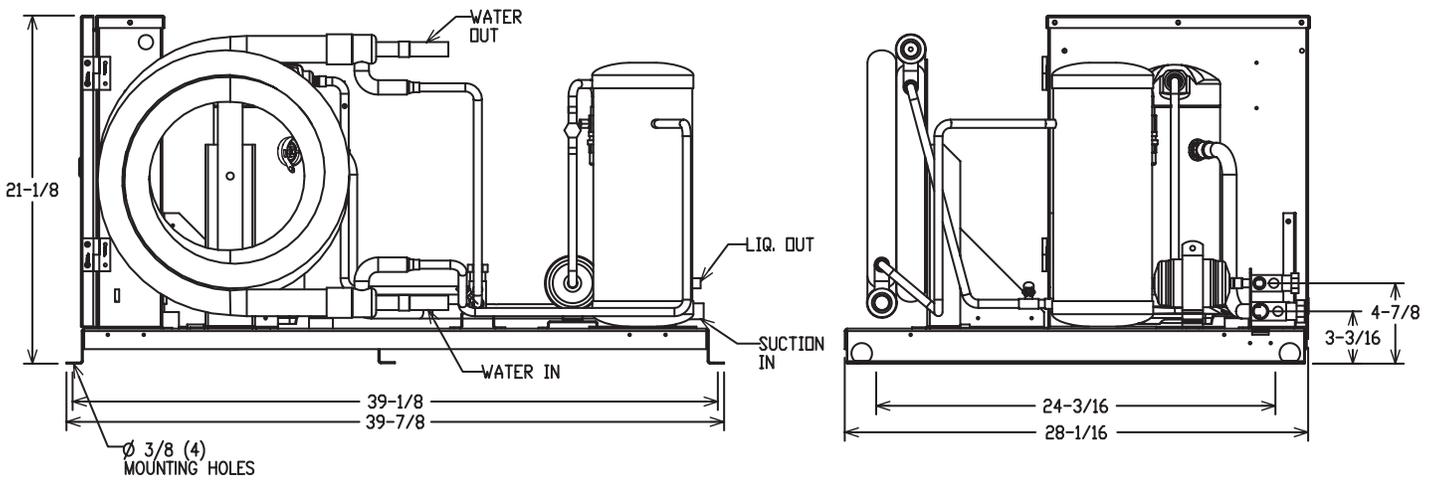
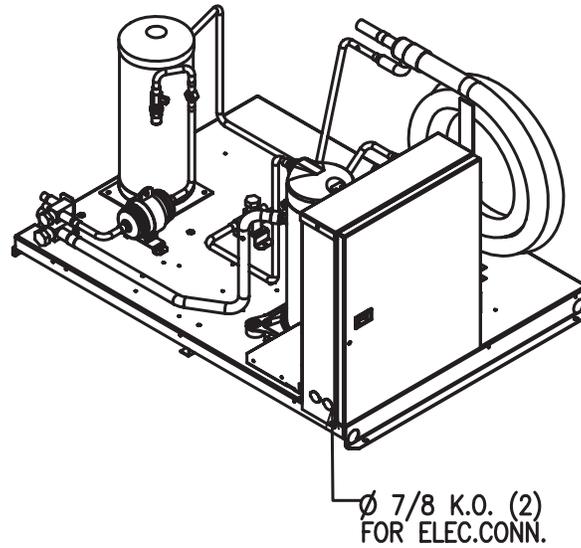
DIMENSIONAL DRAWINGS

Figure 2: FW2



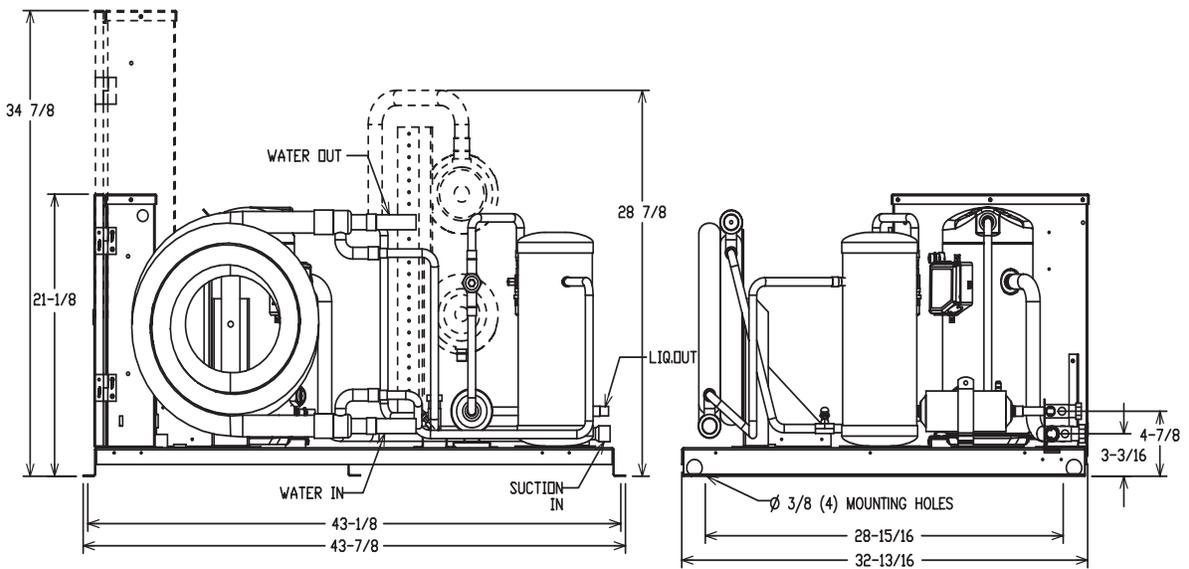
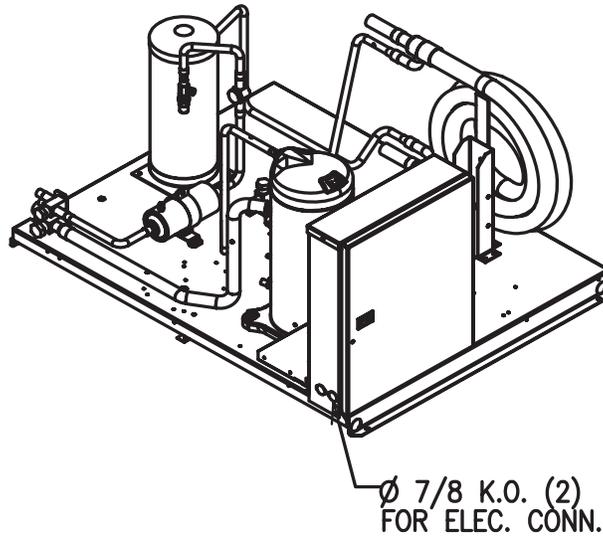
DIMENSIONAL DRAWINGS

Figure 3: FW3



DIMENSIONAL DRAWINGS

Figure 4: FW4





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